

**CLASSIFICATION OF FINISHING TOOLS
IN GREEK BOOKBINDING:
ESTABLISHING LINKS FROM THE LIBRARY OF ST
CATHERINE'S MONASTERY, SINAI, EGYPT.**

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**VOLUME III:
APPENDICES I – VI**

PhD Thesis

**Camberwell College of Arts
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London**

**February
2010**

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APPENDIX I

List of groups of bindings made in workshops of the St Catherine's monastery

(The rubbings reproduced in this section are intended to provide a quick reference and are therefore reduced in size for reasons of space economy. The actual-size rubbings are reproduced in Volume II – *The Corpus of the finishing tools*. It should also be mentioned that at the rubbings reproduced at the beginning of each group are only a representative example of some tools used in each group. The complete list of all the tools can be found in the tables that follow at the end of each section. The dates of the manuscripts given in the second column – *MS Date in Catalogues* – are current catalogue attributions by Gardhausen, Kamil and Benesevic and therefore may need revision)

App.I 1 – Group 4 :c.1757–1777(21+1 printed) – see Chapter 3.1.8



S.1400

Manuscript Number	MS Date in Catalogues	Content	Binding
S.A. 0014	17th c.	Not known	First binding
S.A. 0158	1232	New Testament	Rebinding
S.A. 0234	1771	Services	First binding
S.A. 0327	1292	Sayings of the Fathers	Rebinding
S.85	17th c.	Old Testament	Rebinding
S.476	16th c.	Ascetica	Rebinding
S.942	1770	Horologion	First binding
S.952	17th c.	Horologion	First binding
S.954	17th c.	Horologion	Rebinding
S.1267	18th c.	Music	First binding
S.1270	18th c.	Music	First binding
S.1277	1764-1770	Music	First binding
S.1278	18th c.	Music	Rebinding
S.1289	18th c. (end)	Music	First binding
S.1310	18th c.	Music	First binding
S.1400	16th c.	Horologion	Rebinding
S.1508	18th c.	Music	First binding
S.1542	1563	Music	Rebinding
S.1990	18th c.	Euchologion	First binding
S.2136	1777	Canons	First binding
S.2197	17th c.	Varia	Rebinding
S.2222	18th c.	Horologion	First binding

Table App.I 1– Bindings in group 4

App.I 2 – Group 12: early 18th c., (4) – see Chapter 3.1.7



S.543

Manuscript Number	MS Date in Catalogues	Content	Binding
S.256	1420	New Testament	Rebinding
S.482	18th c.	Ascetica	First binding
S.543	1630	Lives of Saints	Rebinding
S.1972	18th c.	Liturgy	Rebinding

Table App.I. 2

App.I 3 – Group 13: c.1665 (3) - see Chapter 3.1.5



S.1417

Manuscript Number	MS Date in Catalogues	Content	Binding
S.377	11th c.	Sayings of the Fathers	Rebinding
S.1054	1665	Liturgy	First binding
S.1417	17th c.	Music	First binding

Table App.I. 3

App.I 4- Group 14 :c.1605-1622(15) – see Chapter 3.1.3



Manuscript Number	MS Date in Catalogues	Content	Binding
S.15	13th c.	Old Testament	Rebinding
S.332	11th c.	Sayings of the Fathers	Rebinding
S.357	11th c.	Sayings of the Fathers	Rebinding
S.372	11th c.	Sayings of the Fathers	Rebinding
S.435	17th c.	Ascetica	Rebinding
S.445	14th c.	Ascetica	Rebinding
S.509	14th c.	Lives of Saints	Rebinding
S.515	12th c.	Lives of Saints	Rebinding
S.1158	1605	Kyriakodromion	First binding
S.1336	1564	Old Testament	Rebinding
S.1599	16th c.	Triodion and Pentekostarion	Rebinding
S.1641	13th c.	Canonica	Rebinding
S.1692	14th c.	Theologica	Rebinding
S.1744	16th c.	Parakletiki	Rebinding
S.1791	1566-1582	Sayings of the Fathers	Rebinding

Table App.I. 4

App.I 5. Group 15: “Cairo Metochion”, c.1633-1635 (22)



This group was first identified by Boudalis (2004, pp.151-155) as consisting of four bindings. This group seems to have been very prolific since many more bindings are found to match this group in the manuscript collection of the St Catherine’s library as well as the printed books collection, from which I have identified two more bindings, **S.Pr.4885** and **S.Pr.4894**, but more systematic research would be required to obtain the full number. I have also identified one more binding to match this group from the library of the Patriarchate of Alexandria. This is **Ms.Patr.Alex.103**.

Evidence from the 18 new bindings that were added to this group confirms the dates that Boudalis attributed to them: c.1633-1635. What is more, a note on **S.871** confirms that the manuscript was located at the dependency of the monastery in Cairo, possibly with the intention of having it sent to the monastery at Sinai.

S.871, f.399v : “The present book belongs to the Holy monastery of Mount Sinai and whoever removes it from the dependency of Egypt and from the monastery may he be cursed...and whoever sends it to the monastery may he be blessed and forgiven...”¹

¹ «Το παρόν βιβλίον ηπάρχει του αγίου μοναστηρίου του σινέου όρους κ’ όσσης το ξενόσι απου το μετόχην της αιγύπτου κ’ απου το μοναστήη να έχη το ανάθεμα...κ’ όσσης το σήλει ιστο μοναστή να ίνε ευλογημένος κ’ σιχορημένος»

Manuscript Number	MS Date in Catalogues	Content	Binding
S.A.351	13 th c. + 1635	Discourses & Mimars	Rebinding
S.124	1565	Old Testament	Rebinding
S.291	13th c.	New Testament	Rebinding
S.323	1335	Sayings of the Fathers	Rebinding
S.356	10th c.	Sayings of the Fathers	Rebinding
S.384	11th c.	Sayings of the Fathers	Rebinding
S.402	11th c.	Ascetica	Rebinding
S.421	9th c.	Ascetica	Rebinding
S.574	1465	Menologion	Rebinding
S.630	13th c.	Menologion	Rebinding
S.639	1484	Menologion	Rebinding
S.642	1523	Anthologion and services	Rebinding
S.739	14th c.	Triodion and Pentekostarion	Rebinding
S.757	1205	Triodion and Pentekostarion	Rebinding
S.788	15th c.	Parakletiki	Rebinding
S.809	15th c.	Parakletiki	Rebinding
S.823	16th c.	Parakletiki	Rebinding
S.871	16th c.	Horologion	Rebinding
S.1045	16th c.	Liturgy	Rebinding
S.1352	16th c.	Sayings of the Fathers	Rebinding
S.1620	15th c.	Parakletiki	Not known
S.2004	18th c. ?	Liturgy	First binding

Table App.I. 5a

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Tool	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Manuscript	Ho.ao02	Ho.ao01	Rf.fw07	Rf.fw03	Rh.pr01	Hf.q01		Hf.f17	Ho.ao10	Ho.ao11	Ho.ao03						
1 S.A. 0351	x		x					x		x							
2 S. 0124		x		x													
3 S. 0291		x	x	x													
4 S. 0323		x			x												
5 S. 0356	x		x			x		x		x							
6 S. 0384		x			x		x										
7 S. 0402	x	x	x	x													
8 S. 0421			x	x													
9 S. 0574	x		x								x						
10 S. 0630		x			x												
11 S. 0639		x			x												x
12 S. 0642		x		x													
13 S. 0739		x		x													
14 S. 0788	x	x	x	x													
15 S. 0757	x	x	x	x								x					
16 S. 0809	x		x					x	x							x	
17 S. 0823	x								x					x			
18 S. 0871		x			x												
19 S. 1045			x	x													
20 S. 1352	x	x	x					x									
21 S. 1620	x							x									
22 S. 2004	x							x						x			

Table App.I. 5b

App.I 6 – Group 16: “Giglio” bindings, c.1622-1655 (57+4 printed vol.)



S.72

The “Giglio” bindings are characterized by the presence of the fleur-de-lis tool Hf.fl01 and the fact that the bindings have been made by several different binders in three bookbinding styles: Greek, western and Islamic, while many are hybrid bindings borrowing features from all three traditions.

The “Giglio” workshop is one of the most prolific workshops of the seventeenth century that have been identified at the monastery. Boudalis first identified this group consisting of 26 bindings on manuscripts (Boudalis, 2004, pp.113-164) and six on printed books, while this thesis has contributed a further 29 manuscript bindings and three bindings on printed books **S.Pr.183**, **S.Pr.193S** and **Pr.3126**. It is very likely that more bindings on printed volumes will be identified following a systematic survey of the entire printed books collection. The added bindings to Boudalis’s discussion of this group only confirm what is already known about them. The dates of the added bindings are within Boudalis’ period of c.1622-1655 and the names of the binders identified through their notes are the same. However, the discovery of the original fleur-de-lis tool that made the impressions on 47 bindings of the group has provided some additional details. In 2.2.5 it is discussed that a fault on the tool appears only on a certain number of bindings and not on others, which suggests that the tool was damaged at some point during its use by the “Giglio” binders. Table 3 in that chapter gives a list of the bindings that were made before and after the tool was damaged, and sets in this way a milestone date for when the bindings were made.

Manuscript Number	MS Date in Catalogues	Content	Binding
S.A.61	1641	Old Testament	First binding
S.A.270	17th c.	Hexaameron	Rebinding
S.A.325	1639	Sayings of the Fathers	First binding
S.A.337	1622	Discourses & Mimars	First binding
S.A.423	1626	Liturgy	First binding
S.A.565	1622	Lives of Saints	First binding
S.21	10th c.	Old Testament	Rebinding
S.27	1452	Psalter/Old Testament	Rebinding
S.46	14th c.	Old Testament	Rebinding
S.61	1274	Old Testament	Rebinding
S.72	17th c.	Old Testament	Rebinding
S.128	1548	Old Testament	Rebinding
S.175	11 th c.	Tetraevangelion	Not known
S.197	1628	New Testament	First binding
S.202	14th c.	New Testament	Rebinding
S.268	15th c.	New Testament	Rebinding
S.321	14th c.	Sayings of the Fathers	Rebinding
S.353	13th c.	Sayings of the Fathers	Rebinding
S.361	10th c.	Sayings of the Fathers	Rebinding
S.391	11th c.	Sayings of the Fathers	Rebinding
S.404	15th c.	Ascetica	Rebinding
S.408	1371	Ascetica	Rebinding
S.409	1374	Ascetica	Rebinding
S.447	16th c.	Ascetica	Not known
S.448	17 th c.	Ascetica	Not known
S.500	11th c.	Lives of Saints	Rebinding
S.514	10th c.	Lives of Saints	Rebinding
S.520	11th c.	Lives of Saints	Rebinding
S.521	14th c.	Lives of Saints	Rebinding
S.573	1452	Menologion	Rebinding
S.585	1453	Menologion	Rebinding
S.605	16 th c.	Menologion	Not known
S.615	10th c.	Menologion	Rebinding
S.690	1647	Anthologion and services	First binding
S.747	15th c.	Triodion and Pentekostarion	Rebinding
S.750	15th c.	Triodion and Pentekostarion	Rebinding
S.763	1636 ?	Triodion and Pentekostarion	First binding
S.804	15th c.	Parakletiki	Rebinding
S.939	15th c.	Horologion	Rebinding
S.951	16th c.	Horologion	Not known
S.1048	16th c.	Liturgy	First binding
S.1083	1183	Liturgy	Rebinding
S.1099	14th c.	Typikon	Rebinding
S.1156	1603	Kyriakodromion	Not known
S.1159	17th c.	Kyriakodromion	First binding
S.1163	17th c.	Kyriakodromion	First binding
S.1171	17th c.	Kyriakodromion	First binding
S.1178	1634	Kyriakodromion	First binding
S.1390	16th c.	Varia	Not known
S.1755	15th c.	Sayings of the Fathers	Rebinding
S.1787	17th c.	Sayings of the Fathers	First binding
S.1832	17th c.	Lives of Saints	First binding
S.1921	17th c.	Liturgy	First binding
S.1976	1655	Sayings of the Fathers	Not known
S.2229	17th c.	Liturgy	First binding

Table App.I. 6a














		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Tool																
	Manuscript	Hf.fi01	Hg.ch01	Ha.bi01	Ho.kn09	Ho.ao09	Hf.fe91	Rf.fw00	Rf.fw01	Hf.rs47	Hf.qi07	Hf.rs242	Ha.aa09	Hf.st15	Cto.t05	Ha.dr02	~
1	S.A.61	x			x												x
2	S.A.270	x		x													
3	S.A.325	x	x			x											
4	S.A.337	x	x	x													
5	S.A.423	x	x		x												
6	S.A.565	x	x	x													
7	S.21								x								
8	S.27	x					x										x
9	S.46	x	x			x		x									
10	S.61	x	x	x													
11	S.72	x	x	x	x			x	x								
12	S.128	x	x					x									
13	S.175	x						x									
14	S.197	x	x			x		x	x								
15	S.202	x							x	x							
16	S.268	x	x	x													
17	S.321	x							x								
18	S.353	x							x								
19	S.361	x	x														
20	S.391	x	x		x												
21	S.404	x	x			x											
22	S.408	x	x	x		x											
23	S.409	x	x	x													
24	S.447	x	x	x													
25	S.448	x							x								
26	S.500																
27	S.514	x	x														
28	S.520				x												
29	S.521	x	x			x			x								
30	S.573	x	x		x												
31	S.585		x						x								
32	S.605	x	x		x												
33	S.615	x	x			x		x									
34	S.690	x	x			x		x									
35	S.747		x		x	x											
36	S.750	x	x		x												
37	S.763	x	x			x					x						
38	S.804	x	x														
39	S.939	x	x	x					x								
40	S.951	?	x														
41	S.1048	x	x		x												
42	S.1083	x	x	x													
43	S.1099	x			x												
44	S.1156								x								
45	S.1159	x	x	x		x											
46	S.1163	x	x		x						x						
47	S.1171	x	x								x						
48	S.1178	x	x						x								
49	S.1390	x	x		x												
50	S.1755 (?)	x						?				x					
51	S.1787	x							x	x			x	x			
52	S.1832	x	x					x									
53	S.1921	x	x					x									
54	S.1976	x	x	x													
55	S.2229								x							x	

Table App.I. 6b

App.I 7 – Group 18: “New Library”, c.1711-1790 (66+27 printed vols.)



S.1338

S.1370

Group 18 or else the “*New Library*” group (Boudalis, 2004, pp.213-236) was the most active workshop to have existed in the monastery throughout its history, as far as the surviving bookbindings testify. It was the most prolific workshop both in terms of its long time-span, with nearly 80 years of production, but also for the number of bindings that this workshop produced, totalling 93 bindings from the manuscript and printed books collection (66 on manuscripts and 27 on printed books). Considering that the majority of post-seventeenth century printed books have not been surveyed yet and that this workshop was active in the eighteenth century it is most likely that there are many more “*New Library*” bindings to be found.

Boudalis was first to consider 14 bindings on manuscripts that formed this group, which dated between 1719 and 1733. The addition in this thesis of 69 more bindings has extended the period of this workshop to between c.1711 and c.1790. Boudalis identified

that at least three binders were involved with the binding or the repair of the 14 volumes he considered. It is possible that more binders may be attributed to this workshop, judging by the long time-span of this workshop, who may have worked at different periods and/or side-by-side. Nevertheless, no names of binders have been identified, other than those already known from Boudalis' work.

What can be questioned is the attribution of the bindings **S.2137**, **S.1464**, **S.1889** and **S.1890** by Boudalis to Constantinople, through the evidence that Nikeforos Marthalis, who was involved with the repair and the promotion of binding work in this workshop, was at the dependency of the monastery in Constantinople in the early eighteenth century. However, the binding of **S.2137** is impressed, along with other tools, with the centre-piece Co.ao01. This centre-piece, as we have seen in 3.1.9 was tooled on bindings made at the monastery, dating from c.1664, which proves that the tool was already at the monastery before the "*New Library*" workshop was established. Although, it is not impossible that the tool travelled to Constantinople and then returned back to the monastery to be tooled again on more St Catherine's bindings, the chances of this are small.

20 more finishing tools are now identified to have been used by the "*New Library*" workshop, bringing their total number to 33.

Manuscript Number	MS Date in Catalogues	Content	Binding
S.A.42	1790	Old Testament	First binding
S.A.57	17 th c.	Old Testament	Rebound
S.A.165	1488	New Testament	Rebound
S.A.198	1788	Horologion & Prayers	First binding
S.A.254	1732	Services	First binding
S.A.339	14 th c.	Discourses & Mimars	Rebound
S.A.401	13 th c.	Services	Rebound
S.A.416	13th c.	Services	Rebound
S.A.621	13th c.	Commentaries	Rebound
S.A.628	1336	New Testament	Rebound
S.A.676	1607	Sayings of the Fathers	Rebound
S.A.679	13th c.	Sayings of the Fathers	Rebound
S.51	15th c.	Old Testament	Rebound
S.143	1680	Old Testament	Rebound
S.403	15th c.	Ascetica	Rebound
S.410	12th c.	Ascetica	Rebound
S.434	17th c.	Ascetica	Rebound
S.442	18th c.	Ascetica	First binding
S.450	12th c.	Ascetica	Rebound
S.451	15th c.	Ascetica	Rebound
S.455	12th c.	Ascetica	Rebound
S.1008	1790	Euchologia	First binding
S.1130	17th c.	Canonica	Not known
S.1146	1695	Theologica	First binding
S.1176	1674	Kyriakodromion	Not known

S.1298	18th c.	Music	First binding
S.1338	13th c.	Varia	Rebound
S.1370	18 th c.	Sayings of the Fathers	Rebound
S.1380	18th c.	Varia	First binding
S.1381	18th c.	Sayings of the Father	First binding
S.1461	17th c.	Music	Rebound
S.1464	1223	Music	Rebound
S.1475	18th c.	Music	Not known
S.1600	16th c.	Kyriakodromion	Rebound
S.1604	17th c.	Theologica	Rebound
S.1605	15th c.	Sayings of the Fathes	Rebound
S.1622	1695	Varia	Rebound
S.1627	1361	Menologion	Rebound
S.1629	15th c.	Theologica	Rebound
S.1676	18th c.	Varia	First binding
S.1689	18th c.	Varia	Rebound
S.1701	18th c.	Historica	First binding
S.1716	18th c.	Sayings of the Fathers	Not known
S.1717	18th c.	Sayings of the Fathers	Rebound
S.1757	18th c.	Historica	First binding
S.1788	17th c.	Sayings of the Fathers	First binding
S.1819	18th c.	Sayings of the Fathers	First binding
S.1833	17th c.	Varia	First binding
S.1841	1715	Sayings of the Fathers	First binding
S.1846	18th c.	Theologica	First binding
S.1854	1739	Commentary on the Bible	First binding
S.1889	16th c.	Sayings of the Fathers	Rebound
S.1890	1715	Sayings of the Fathers	First binding
S.1916	18th c.	Varia	Not known
S.1941	16th c.	Liturgy	Rebound
S.1953	18th c.	Varia	First binding
S.1988	18th c.	Theologica	Not known
S.2000	17th c.	Liturgy	Not known
S.2010	17th c.	Liturgy	First binding
S.2021	18th c.	Sayings of the Fathers	First binding
S.2029	1628	Theotokarion	Rebound
S.2071	18th c.	Liturgy	Rebound
S.2127	16th c.	Sayings of the Fathers	Rebound
S.2137	18th c.	Historica	Rebound
S.2270	17th c.	Varia	Not known
S.2285	1769	Varia	First binding

Table App.I. 7a

Tool	Manuscript	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
		C1a01	C1a01	P1a01	P1a01	P1a02	C1b01	C1b01	C1b02	C1b04	C1b06	L1b05	R1b18	R1b19	R1b02	R1b10	L1a04	R1b10
1	S.A42						x											
2	S.A57						x											
3	S.A165																x	
4	S.A198																x	
5	S.A254																x	
6	S.A339																x	
7	S.A401																x	
8	S.A416														x			
9	S.A621																x	
10	S.A628																x	
11	S.A676																x	
12	S.A679																x	
13	S.51																	
14	S.143													x				
15	S.403			x	x											x		x
16	S.410														x			
17	S.434														x			
18	S.442															x		x
19	S.450														x			
20	S.451			x												x		x
21	S.455														x			
22	S.1008						x		x									
23	S.1130					x												
24	S.1146	x	x														x	
25	S.1176	x		x													x	
26	S.1298					x								x				
27	S.1338																x	
28	S.1370 ?		x	x													x	
29	S.1380			x													x	x
30	S.1381						x		x		x	x					x	
31	S.1461															x		x
32	S.1464			x														
33	S.1475														x			
34	S.1600							x						?				
35	S.1604			x	x											x		x
36	S.1605																	
37	S.1627			x	x											x		x
38	S.1622					x												
39	S.1629			x	x											x		x
40	S.1676		x	x										x			x	
41	S.1689										?					x		x
42	S.1701			x												x		x
43	S.1716																	
44	S.1717			x	x													
45	S.1757										x						x	
46	S.1788		x				x		x							x		x
47	S.1819			x						x				x			x	
48	S.1833	x	x														x	
49	S.1841		x	x														
50	S.1846										x	x				x		x
51	S.1854	x	x														x	
52	S.1889		x			x											x	
53	S.1890		x			x											x	
54	S.1916												x					
55	S.1941		x					x									x	
56	S.1953	x	x														x	
57	S.1988					x												
58	S.2000																	
59	S.2010					x									x			
60	S.2021	x	x														x	
61	S.2029	x	x															
62	S.2071																x	
63	S.2127		x															
64	S.2137					x		x										
65	S.2202														x			
66	S.2270	x	x														x	
67	S.2285					x												

Table App.I.7b

Tool	Manuscript	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
		Hf.a04	Hf.a02	Hf.a05	Hf.a18	Hf.m16	Hf.m04	Hf.m26	Hf.m03	Hf.m49	Hf.m14	~	Hf.m09	Ho.a002	Hf.m138	Ho.a013	Hf.m06	Ho.p048	~
1	S.A.42																		
2	S.A.57																		
3	S.A.165	x																	
4	S.A.198	x																	
5	S.A.254	x																	
6	S.A.339	x																	
7	S.A.401	x																	
8	S.A.416																		
9	S.A.621	x																	
10	S.A.628	x																	
11	S.A.676	x													x				
12	S.A.679	x																	
13	S.51						x	x		x									
14	S.143							x											x
15	S.403		x	x															
16	S.410					x													
17	S.434					x													
18	S.442																		
19	S.450					x													
20	S.451				x														
21	S.455					x													
22	S.1008												x					x	
23	S.1130																		
24	S.1146	x																	
25	S.1176	x																	
26	S.1298																		
27	S.1338	x														x	x		
28	S.1370 ?	x	x	x															
29	S.1380				x														
30	S.1381																		
31	S.1461			x															
32	S.1464																		
33	S.1475					x													
34	S.1600							x	x					x					x
35	S.1604			x															
36	S.1605															x			
37	S.1627			x															
38	S.1622																		
39	S.1629			x															
40	S.1676	x																	
41	S.1689																		
42	S.1701			x															
43	S.1716						x	x	x	x									x
44	S.1717																		
45	S.1757	x															x		
46	S.1788										x								
47	S.1819	x	x																
48	S.1833	x																	
49	S.1841																		
50	S.1846											x							
51	S.1854	x																	
52	S.1889	x																	
53	S.1890	x																	
54	S.1916															x			
55	S.1941	x																	
56	S.1953	x																	
57	S.1988																		
58	S.2000						x	x											x
59	S.2010																		
60	S.2021	x																	
61	S.2029																		
62	S.2071	x																	
63	S.2127																		
64	S.2137																		
65	S.2270	x																	
66	S.2285																		

Table App.I. 7c

App.I 8 – Group 22: c.1779, (2)



S.460

Painted edges of S.100 and S.460

This group consists of only two bindings, made in a western style, with supported sewing on three cord cores each. They have laminated paper boards, attached by lacing in the supports, and textblock edge decoration that was most certainly made by the same hand. The blind-tooled decoration of two volumes focuses on two large centre-pieces with representations of Jesus enthroned and the Virgin and Child, which carry inscriptions in Slavonic. The corner-piece that appears on both bindings is the most characteristic feature of this group, since it is the corner-piece identified as TOOL 33 from the finishing tool finds. Based on this tool we may attribute the two bindings with some reservation to a workshop that was active at the monastery or in one of its dependencies. Moreover, the

manuscript **S.460** that is in its first binding is dated to November 1779, which is most likely the *terminus post quem* for when these two manuscripts were bound.

Manuscript Number	MS Date in Catalogues	Content	Binding
S.100	1503	Old Testament	Rebound
S.460	1779	Ascetica	First binding

Table App.I. 8a



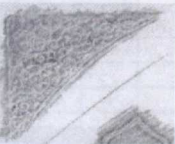
		1	2	3
	<div>Tool</div> <div>Manuscript</div>			
		Ct.pa03	Ct.v01	Lf.fw05 - Tool 33
1	S.100	x	x	x
2	S.460	x	x	x

Table App.I. 8b

App.I 9.Group 25 : “Raithos”,c.1648-1689 (22)



S.433

The “*Raithos*” bindings were first identified by Boudalis (2004, pp.183-208), as consisting of 13 bindings. This thesis has extended this list to 21 bindings, which conform to exactly the same style of western binding with laminated paper boards and supported sewing and have identical decoration as Boudalis has presented analytically. The descriptive colophon notes and inscriptions by the binders of four of the manuscripts presented by Boudalis attribute these bindings to a workshop in the dependency of the monastery in Raithos (El-Tor), on the Sinai Peninsula. The notes found in the additional manuscripts identified in this thesis confirm the same evidence and the period during which the workshop was active. **S.1160** and **S.2039**, dated 1648 and 1652 respectively, are two more manuscripts written by monk Mattheos, along with **S. 76**, **S. 426**, **S. 433**, **S. 1814**, **S. 2056** that Boudalis had identified. Also **S.654** is a binding signed by its binder Akakios, who also bound S.931 as Boudalis has discussed (Boudalis, 2004, p.185) .

Manuscript Number	MS Date in Catalogues	Content	Binding
S.0075	16th c.	Old Testament	Rebound
S.0076	1654	Old Testament	First binding
S.0088	17th c.	Old Testament	Rebound
S.0426	1653	Ascetica	First binding
S.0433	1652	Ascetica	First binding
S.0654	16th c.	Anthologion and services	Not known
S.0710	17th c.	Anthologion and services	First binding
S.0764	15th c.	Triodion and Pentekostarion	First binding
S.0889	17th c.	Horologion	First binding
S.0931	14th c.	Horologion	Rebound
S.1070	1657	Liturgy	First binding
S.1086	16th c.	Liturgy	Rebound
S.1160	1648	Kyriakodromion	First binding
S.1181	16th c.	Kyriakodromion	Rebound
S.1768	15th c.	Sayings of the Fathers	Rebound
S.1814	Before 1660	Horologion	Not Known
S.1856	1662	Kyriakodromion	First binding
S.1996	1657	Sayings of the Fathers	First binding
S.2039	1652	Theotokarion	Rebound
S.2056	1660	Old Testament	First binding
S.2140	18th c.?	Liturgy	First binding

Table App.I. 9a


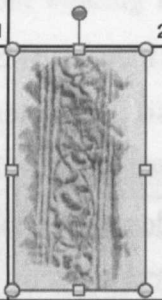





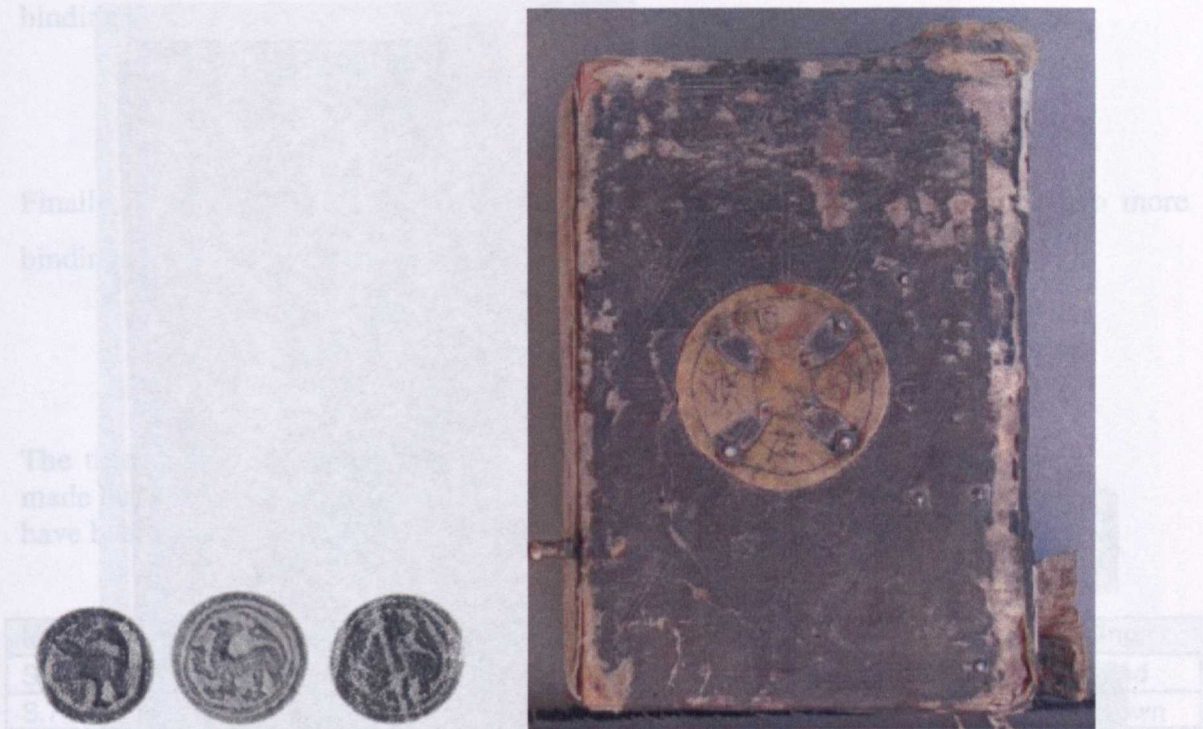
			1	2	3	4	5	6	7
	<div>Tool</div> <div>Manuscript</div>								
		Ha.bf02	Rf.fw21	Rf.fw27	Rf.fw01	Hf.fe76	Hf.rs207	~	
1	S.75	x				x			
2	S.76					x			
3	S.88	x						x	
4	S.426	x							
5	S.433	x		x					
6	S.654	x							
7	S.710	x							
8	S.764	x	x						
9	S.889	x				x			
10	S.931	x							
11	S.1070	x							
12	S.1086	x							
13	S.1160	x							
14	S.1181	x							
15	S.1768	x			x				
16	S.1814	x							
17	S.1856	x				x			
18	S.1996	x							
19	S.2039	x							
20	S.2056					x			
21	S.2140		x			x?	x		

Table App.I. 9b

App.I 10 – Group 27: c.1486-1510 (8) – see Chapter 3.1.1



S.A.77

MSNumber	MS Date in Catalogues	Content	Binding
Arabica 0013	1259	Liturgy	Rebound
Arabica 0015	13th c.	NK	Rebound
Arabica 0077	1262	New Testament	Rebound
Arabica 0275	13th c.	Discourses & Mimars	Rebound
Arabica 0331	1278	Discourses & Mimars	Rebound
Greek 0742	1099	Triodion and Pentekostarion	Rebound
Syriac 0083	1292?	Liturgy	Rebound
Syriac 0196	1292?	Liturgy	Rebound

Table App.I 10

App.I 11 – Group 30: “Klimis”, c.1560-1570 (20)



S.628

The “*Klimis*” workshop is named as such after Boudalis who identified this workshop first, after a tooled impression that bares this name in Greek. Weitzmann and Galavaris, (1990, pp. 170-174.), in their examination of **S.216** describe this tool as carrying the name of the binder, but as Boudalis also agrees, there is no such evidence to confirm this. The five bindings that Boudalis described are Greek bindings in every feature. They have unsupported sewing, wooden boards attached in a typical sewing attachment system, Greek endbands protruding over the edges of the boards and sewn in to them, with secondary sewing with a chevron pattern that resembles that of the Cretan endbands of the fifteenth and sixteenth centuries. Their textblock edges are also decorated with round medallions and interlaces, as commonly found on Greek books.

In this thesis I have identified 14 more books that fall into this Group, based on their decorative and structural similarities.

Three notes from the new additions to this group have helped to date this workshop more accurately.

In **S.502** a note on the left endleaves that seem to have been added at the time of the rebinding of the volume reads:

“ 1582, Paisios monk, who is a Serb, God forgive me”

1582 is therefore a *terminus ante quem* for the date of this binding.

In **S.628** we read in a dedication note, again on endleaves possibly contemporary with the binding:

“This book belongs to me, monk Georgios, and I dedicate it to the Holy monastery of Mount Sinai, 1560”

Finally, a note by Nyfos on the right endleaves of **S.766**, who has signed two more bindings from *Group 28* and one from *Group 1*. Reads:

f.266v: *“7072 (1563), month October 28, I Nyfos, brought the present pentecostarion to the Holy monastery of Sinai from Egypt. Indiction 13”*

The three notes mentioned above do not testify by whom these bindings were made but are indication of the period before or after which these manuscripts must have been bound.

Manuscript Number	MS Date in Catalogues	Content	Binding
S.A.76	13 th c.	New Testament	Rebound
S.70	16th c.	Old Testament	Not known
S.137	15th c.	Old Testament	Rebound
S.216	12th c.	New Testament	Rebound
S.240	15th c.	New Testament	Rebound
S.296	1454	New Testament	Rebound
S.367	10th c.	Sayings of the Fathers	Rebound
S.420	10th c.	Ascetica	Rebound
S.502	12th c.	Lives of Saints	Rebound
S.559	15th c.	Menologion	Rebound
S.599	1465	Menologion	Rebound
S.604	15th c.	Menologion	Rebound
S.628	1457	Menologion	Rebound
S.766	1528	Triodion and Pentekostarion	Rebound
S.771	16th c.	Triodion and Pentekostarion	Rebound
S.1098	1392	Typikon	Rebound
S.1554	1465	Minaion	Rebound
S.1793	15th c.?	Menologion	First binding
S.1934	17th c.?	Sayings of the Fathers	Rebound

Table App.I. 11a

Tool	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Manuscript	RIw20	Ha002	HIk09	Hoac09	HIrs06	HIrs06	HIrs06	HIrs06	HIrs06	HIrs06	HIrs06	HIrs06	HIrs06	HIrs06	HIrs06	HIrs06	HIrs06	HIrs06	HIrs06	HIrs06	HIrs06	HIrs06	HIrs06
1 S.A.76	x																						
2 S.70																							
3 S.137																							
4 S.216																							
5 S.240																							
6 S.296																							
7 S.367																							
8 S.420																							
9 S.502																							
10 S.559																							
11 S.599																							
12 S.604																							
13 S.628																							
14 S.766																							
15 S.771																							
16 S.1098																							
17 S.1554																							
18 S.1793																							
19 S.1934																							

Table App.I. 11b

App.I 12 – Group 31: “Antioch bindings”, c.1469-1543 (60)



The “Antioch” group of bindings is related to one of the oldest, most productive and most important bookbinding workshops that have been identified. Boudalis first discussed this group, while presenting analytically nine bindings, which he dated between the late

fifteenth and mid-sixteenth century. Apart from the binding of **S.1991** which I believe was bound by the workshop of “Group 1” and not the “Antioch” group, there is enough evidence to suggest that the other bindings are the products of the one workshop, in which smaller subgroups are identified. Boudalis suggested that this workshop is connected to Antioch, Gaza and the monastery of St Catherine, based on notes regarding mainly the provenance of the manuscripts or the origin of their owners at certain times or to Crete based in the technical characteristics which many of the bindings have, such as the Cretan endbands. Evidence from binder’s and ownership notes on the 51 bindings added to this group as a result of this thesis, confirm the links with Antioch, Gaza but also support that the monastery of Saint Catherine is the most likely place where these bindings were made. This is further supported by the several finishing tools which are recorded from the 51 bindings, which are also characteristic of St Catherine’s bindings. Some of these tools are also among the finishing tool finds (Part 2).

The most characteristic note to support a St Catherine’s provenance for this workshop is a note in Arabic from the composite Arabic manuscript, **S.A.561** which consists of more than ten different textblocks bound together. It reads:

“It [the manuscript] belongs to monk Abba Paisios who gathered the leaves which were scattered and bound them and then the Bishop of Sinai Lazaros gifted it to him, and no-one should have the right to

*take it from him and this was on Thursday 6 (or 16?) June ?977 (date is not clear)."*²




















Unfortunately, the date given in the last line is not clear, but we know that Lazaros A' was Archbishop of the monastery of St Catherine between 1510 and 1539, placing this binding in this period. More importantly this note suggests that this manuscript was bound locally. The dates of this group are confirmed, as Boudalis supported, as from the late fifteenth to the mid-sixteenth century. Although there are very few notes that attribute dates to the bindings, the majority of the watermarks identified are from papers of the last quarter of the fifteenth century.

Manuscript Number	MS Date in Catalogues	Content	Binding
S.A.79	13th c.	New Testament	Rebound
S.A.84	13th c.	New Testament	Rebound
S.A.89	1285	New Testament	Rebound
S.A. 170	1285	Lectionary	Rebound
S.A. 173	1303	Lectionary	Rebound
S.A.222	Unknown date?	Liturgy	Not Known
S.A.245	13th c.	Services	Rebound
S.A.250	1287	Services	Rebound
S.A.269	12 th c.	Sayings of the Fathers	Rebound
S.A.334	1321	Discourses & Mimars	Rebound
S.A.340	13th c.	Discourses & Mimars	Rebound
S.A.344	13th c.	Discourses & Mimars	Rebound
S.A.390	1164	Canons	Rebound
S.A.397	1333	Services	Rebound
S.A.398	1258	Services	Rebound
S.A.403	1258	Services	Rebound
S.A.405	1335	Services	Rebound
S.A.407	1335	Services	Rebound
S.A.409	13th c.	Services	Rebound
S.A.438	13th c.	Discourses & Mimars	Rebound
S.A.561	1469	Lives of Saints	First binding
S.Geor.16	10th c.	Biblica	Rebound
S.14	12 th c.	Old Testament	Rebound
S.22	10 th c.	Old Testament	Rebound
S.30	9 th c.	Old Testament	Rebound
S.269	15 th c.	New Testament	Rebound
S.285	12th c.	New Testament	Rebound
S.290	12th c.	New Testament	Rebound
S.297	1510	New Testament	Rebound
S.306	13th c.	Commentary on the Bible	Rebound
S.324	1543	Saying of the Fathers	First binding

² I am most grateful to Father Gregorios Sinaitis for his help with the transcription of this note, among many other Arabic notes in this thesis.

S.368	11th c.	Sayings of the Fathers	Rebound
S.370	11th c.	Sayings of the Fathers	Rebound
S.376	9th c.	Sayings of the Fathers	Rebound
S.380	13th c.	Sayings of the Fathers	Rebound
S.413	1505	Ascetica	First binding
S.561	15th c.	Menologion	Not Known
S.583	11th c.	Menologion	Rebound
S.598	11th c.	Menologion	Rebound
S.659	15th c.	Anthologion and services	Not Known
S.668	14th c.	Anthologion and services	Rebound
S.711	15th c.	Anthologion and services	Rebound
S.775	13th c.	Triodion and Pentekostarion	Rebound
S.806	15th c.	Parakletiki	Not Known
S.915	15th c.	Horologion	First binding
S.918	15th c.	Horologion	Not Known
S.935	15th c.	Horologion	First binding
S.948	1538	Horologion	First binding
S.968	1426	Euchologia	First binding
S.975	16th c.	Euchologia	Rebound
S.977	15th c.	Euchologia	Rebound
S.1116	13th c.	Canonica	Rebound
S.1117	14th c.	Canonica	Rebound
S.1162	17th c.	Kyriakodromion	Rebound
S.1229	1374	Sticherarion	Rebound
S.1596	19th c.?	Triodion and Pentekostarion	First binding
S.1980	18th c.?	Euchologion	Rebound
S.2044	16th c.	Horologion	First binding
S.2048	17th c.	Canons	Rebound
S.Syr.202	13th c.	Liturgy	Rebound

Table App.I. 12

		Tool																					
Manuscript																							
		Ha.101	Ha.dr02	Cl.de01	~	Ha.e01	Ha.dr07	Ha.n01	Hi.st215	Hi.Je02	Hi.I02	~	~	Hi.fw02	Hi.fw04	Hi.fw05	Hi.fw06	Hi.rs20	Hi.I08	Hi.rs02	Hg.ch01	Ho.p01	
1	S.A. 0079																	x					
2	S.A. 0084															x							x
3	S.A. 0089	x							x					x				x					
4	S.A. 0170	x					x		x			x	x			x		x					
5	S.A. 0173																	x					
6	S.A. 0222																	x					
7	S.A. 0245																	x					
8	S.A. 0250																	x					
9	S.A. 0269	x																					
10	S.A. 0334	x			x	x																	
11	S.A. 0340		x					x	x									x					
12	S.A. 0344	x																					
13	S.A. 0390	x												x				x					
14	S.A. 0397									x								x					
15	S.A. 0398									x													
16	S.A. 0403	x			x													x					
17	S.A. 0405									x								x					
18	S.A. 0407									x								x					
19	S.A. 0409					x	x			x						x		x					
20	S.A. 0438	x																					
21	S.A. 0561	x												x				x					
22	S. 0014	x	x													x					x		
23	S. 0022										x												
24	S. 0030	x							x									x					
25	S. 0269							x								?							x
26	S. 0285	x							x					x				x					x
27	S. 0290															x		x		x			
28	S. 0297																						
29	S. 0306	x				x		x	x					x				x	x	x			x
30	S. 0324															x			x	x	x		
31	S. 0368	x									x												
32	S. 0370										x												x
33	S. 0376															x							
34	S. 0380							x															
35	S. 0413	x	x					x	x							x		x		x			x
36	S. 0561							x	x							x		x	x	x			x
37	S. 0583																	x					
38	S. 0598																	x					
39	S. 0659																			x			
40	S. 0668	x			x													x					
41	S. 0711																			x			
42	S. 0775	x												?									
43	S. 0806					x		x	x							x		x	x	x	x		x
44	S. 0915	x																					x
45	S. 0918								x											x			x
46	S. 0935													?				x	x				
47	S. 0948																			x			
48	S. 0968	x									x											x	x
49	S. 0975							x	x							x		x	x	x			x
50	S. 0977							x	x									x	x	x			x
51	S. 1116														x								
52	S. 1117								x								x	x	x	x	x		
53	S. 1162							x									x						x
54	S. 1229	x							x						x								x
55	S. 1596																						
56	S. 1980																						
57	S. 2044							x	x														
58	S. 2048		x			x																	
59	S. Geo 0016	x	x																				
60	S. Syr 0202	x							x						x								

		24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
	Manuscript																										
1	S.A. 0079																										
2	S.A. 0084																										
3	S.A. 0089																										
4	S.A. 0170																										
5	S.A. 0173																										
6	S.A. 0222																										
7	S.A. 0245																										
8	S.A. 0250																										
9	S.A. 0269																										
10	S.A. 0334																										
11	S.A. 0340																										
12	S.A. 0344																										
13	S.A. 0390																										
14	S.A. 0397																										
15	S.A. 0398																										
16	S.A. 0403																										
17	S.A. 0405																										
18	S.A. 0407																										
19	S.A. 0409																										
20	S.A. 0438																										
21	S.A. 0561																										
22	S. 0014																										
23	S. 0022																										
24	S. 0030																										
25	S. 0269																										
26	S. 0285	x																									
27	S. 0290																										
28	S. 0297																										
29	S. 0306																										
30	S. 0324																										
31	S. 0368																										
32	S. 0370																										
33	S. 0376																										
34	S. 0380																										
35	S. 0413																										
36	S. 0561																										
37	S. 0583																										
38	S. 0598																										
39	S. 0659																										
40	S. 0668																										
41	S. 0711																										
42	S. 0775																										
43	S. 0806																										
44	S. 0915																										
45	S. 0918																										
46	S. 0935																										
47	S. 0948																										
48	S. 0968																										
49	S. 0975																										
50	S. 0977																										
51	S. 1116																										
52	S. 1117																										
53	S. 1162																										
54	S. 1229	x																									
55	S. 1596																										
56	S. 1980																										
57	S. 2044																										
58	S. 2048																										
59	S. Geo 0016																										
60	S. Syr 0202																										

Table App.I. 12b

App.I 13 – Group 34: first half of 16th c. (5) – see Chapter 3.1.2

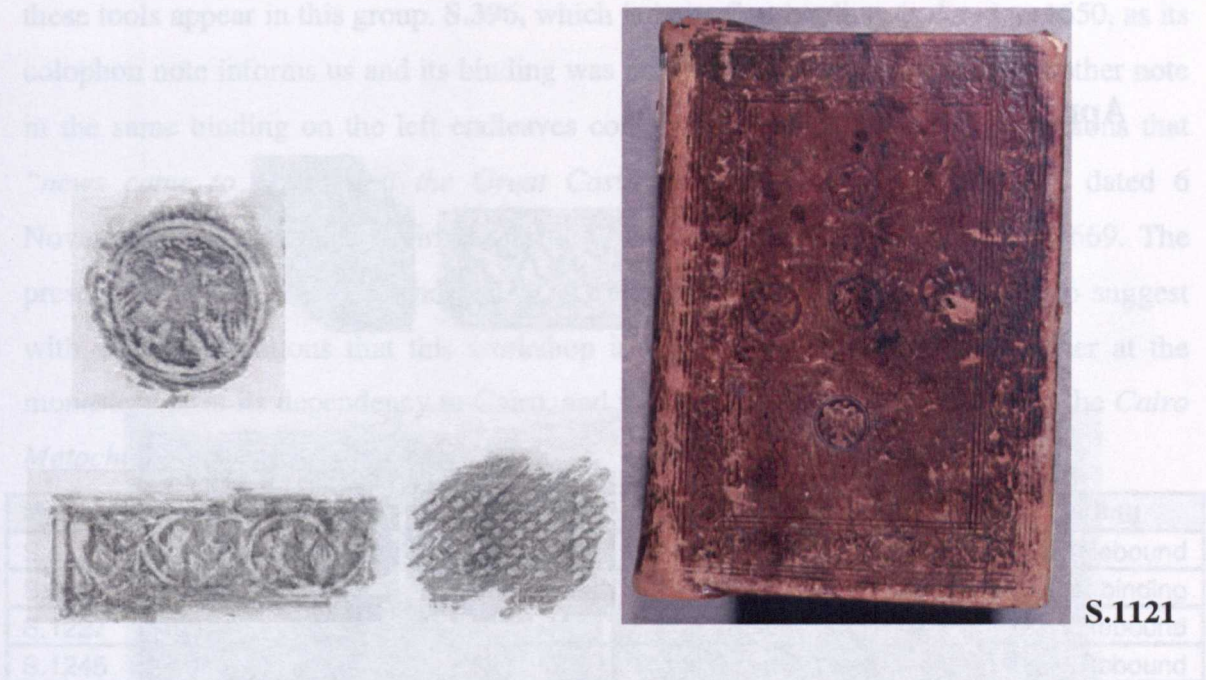


S.341

Manuscript Number	MS Date in Catalogues	Content	Binding
S.329	10th c.	Sayings of the Fathers	Rebound
S.341	11th c.	Sayings of the Fathers	Rebound
S.508	10th c.	Lives of Saints	Rebound
S.516	11th c.	Lives of Saints	Rebound
S.1597	16th c.	Menologion	Rebound

Table App.I. 13

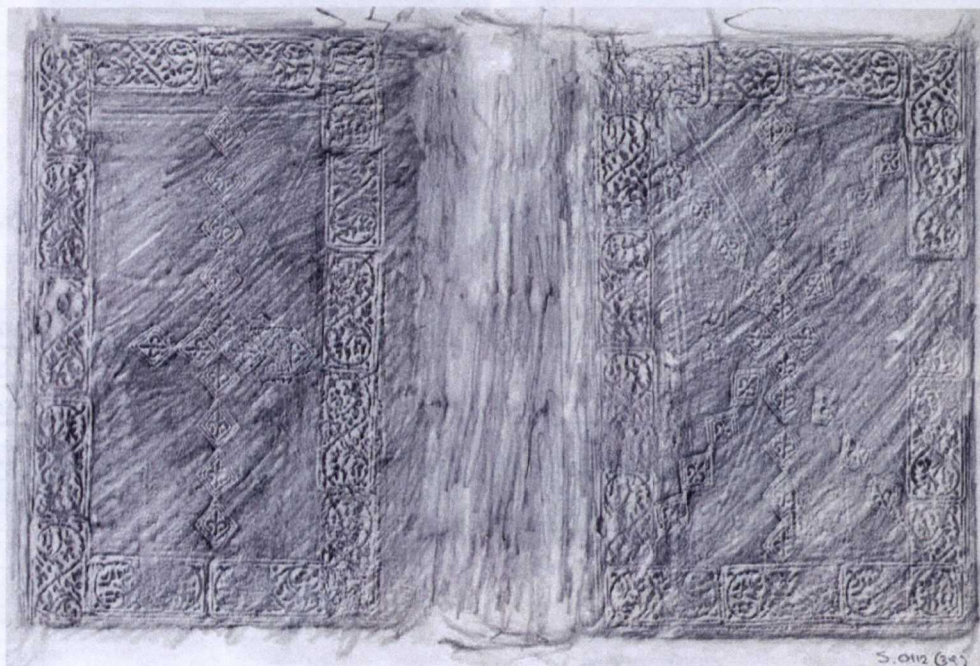
App.I 14 – Group 36: c.1647 (4), Raithos - see Chapter 3.1.4



Manuscript Number	MS Date in Catalogues	Content	Binding
S.336	1647	Sayings of the Fathers	First binding
S.845	15th c.	Theotokarion	Rebound
S.1121	15th c.	Canonica	Rebound
S.2224	18th c.?	Liturgy	First binding

Table App.I. 14

App.I 15 – Group 39: c.1650 (5)



full-size rubbing of S.112



S.396

This group consists of six bindings on Greek manuscripts that were bound c.1640 at the monastery. The bindings carry both Greek and western features and occasionally combine these within the same binding forming hybrid structures. Both unsupported and supported sewn textblocks are present, combined either with Greek compound endbands sewn to the boards or typical western endbands laced into the boards. However, their blind-tooled decoration is identical. Six tools have been recorded in total, with the most frequently tools used being Hf.ql07 and Hf.fl17. Both of

these tools are linked strongly also with the “*Cairo Metochion*” – Group 15 while

Hf.ql07 also appears on one “Giglio” binding. Only a few years later, possibly c.1650, these tools appear in this group. **S.396**, which is in its first binding, is dated to 1650, as its colophon note informs us and its binding was probably made not long after. Another note in the same binding on the left endleaves contemporary with the binding mentions that “news came to Egypt that the Great Castle of Crete fell to the Turks”³, dated 6 November, 1669, which confirms that this binding was already in place by 1669. The presence of these two tools and their link to *Group 15* and *Group 16* may also suggest with some reservations that this workshop is likely to have been located either at the monastery or at its dependency in Cairo, and it is possibly related directly with the *Cairo Metochion*, *Group 15* workshop.

Manuscript Number	MS Date in Catalogues	Content	Binding
S.112	15th c.	Old Testament	Rebound
S.396	1650	Ascetica	First binding
S.1227	14th c.	Sticherarion	Rebound
S.1245	1485	Triodion and Pentekostarion	Rebound
S.1630	16th c.	Lives of Saints	Not known
S.1789	17th c.	Canons	First binding

Table App.I. 15a







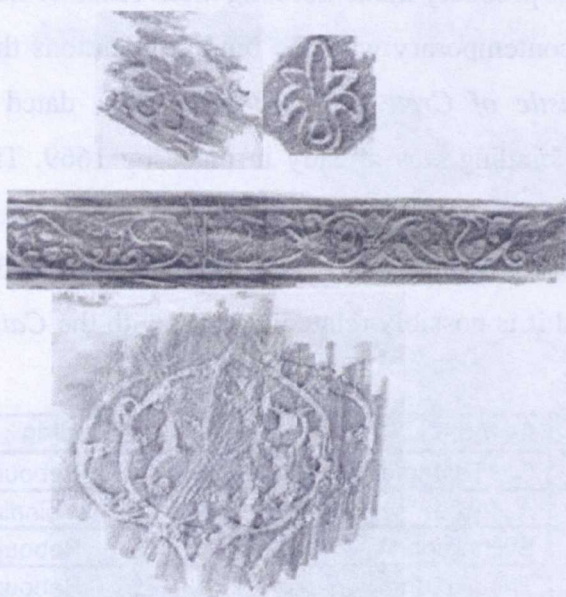
		1	2	3	4	5	6
	Tool						
	Manuscript	Ha.et08	Hf.ql07	Hf.fl44	Hf.fl17	Ho.kn57	Unidentified
1	S.112		x	x			
2	S.396		x		x		
3	S.1227	x	x				x
4	S.1245	x	x				
5	S.1630		x	?	x		
6	S.1789		x		x	x	

Table App.I. 15b

³ «1669, μην(α) νοευριο στ'. Ἦρθε χαμπάρι στο μῆσέρι ο τόπος παραδοκῆσε τη Κρύτη του τουρκο το μεγάλο κάστρο»

App.I 16 – Group 42: c.1659 (3)



S.1161

Three bindings have been identified in this group, based on their decorative similarities. There are six tools recorded in total, which have been impressed in blind. Two of these tools are distinguished and offer significant clues about the provenance of the bindings. The centre-piece Cf.fw01 is TOOL 31 of the finishing tool finds at the monastery (2.4.1) and Rf.fw07 is a tool that has been recorded on 14 bindings from *Group 4*, *Group 15* and *Group 67*, all of which are undoubtedly linked with the monastery or its dependency in Cairo. The use of these tools therefore makes it very likely that this workshop is too linked with the monastery. An ownership note on **S.1733**, signed by Archbishop Ioasaph (1617-1660) confirms that this manuscript was at the monastery during his appointment. **S.2152** is a manuscript that was written in 1659. Moreover, a sketchy drawing of the monastery of Saint Catherine and Moses on Mount Sinai receiving the Ten Commandments on the first folia of the manuscript may also suggest that this was a manuscript made locally, although this cannot be confirmed without further evidence.

Manuscript Number	MS Date in Catalogues	Content	Binding
S.1161	17th c.	Kyriakodromion	First binding
S.1733	17th c.	Kyriakodromion	First binding
S. 2152	1659	Liturgy	First binding

Table App.I. 16a

		1	2	3	4	5	6
	<div> <div>Tool</div> <div>Manuscript</div> </div>						
		Hf.st39	Cf.fw01	Hf.fw55	Hf.rs168	Hf.rs50	Rf.fw07
1	S.1161	x	x	x	x		
2	S.1733	x		?		x	
3	S.2152	x				x	x

Table App.I. 16b

App.I 17 – Group 44: “Elusive binder”, c. 1660-1666 (17)



S. Nine of the 14 bindings in the “Elusive binder” group. B) S.619

The “*Elusive binder*” was identified by Boudalis (2004, pp.165-181) as the binder of nine bindings, which present some of the most well made and most accurately repeated binding features in any group identified at the monastery. The same can be said for the additional eight bindings identified in this thesis that fall into this group. The notes and manuscript dates of these added bindings do not have any information to add to what was already discussed by Boudalis, but can only confirm the time frame during which it was active.

Manuscript Number	MS Date in Catalogues	Content	Binding
S.80	1664	Old Testament	First binding
S.557	15th c.	Menologion	Rebound
S.565	15th c.	Menologion	Rebound
S.619	15th c.	Menologion	Rebound
S.629	15th c.	Menologion	Rebound
S.634	15th c.	Menologion	Rebound
S.678	1666	Anthologion and services	First binding
S.803	15th c.	Parakletiki	Rebound
S.808	15th c.	Parakletiki	Rebound
S.1058	16th c.	Liturgy	Rebound
S.1065	16th c.	Liturgy	Rebound
S.1092	16th c.	Liturgy	Rebound
S.1110	1523	Typikon	Rebound
S.1963	1667	Canons	First binding
S.2062	1660	Old Testament	First binding
S.Slav.15	1627	Liturgy	First binding ?
S.Slav.31	17 th c.	Liturgy	First binding ?

Table App.I. 17a













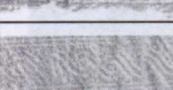
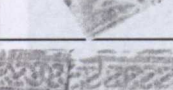


		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Tool																			
Manuscript		Hf.w16	Hf.w10	Hf.w10	Hf.w10	Hf.w11	Hf.w01	Hf.w10	Hf.w19										
1 S. 0080		x	x	x	x		x			x									
2 S. 0557		x	x	x	x		x	x	x	x									
3 S. 0565		x	x	x	x		x	x	x	x									
4 S. 0619		x			x		x	x	x	x									
5 S. 0629					x		x	x	x	x									
6 S. 0634		x	x		x		x	x	x	x									
7 S. 0678		x	x			x	x	x	x	x									
8 S. 0803		x	x			x	x	x	x	x									
9 S. 0808		x	x		x		x	x	x	x									
10 S. 1058		x				x	x	x	x	x									
11 S. 1065						x	x	x	x	x									
12 S. 1092						x	x	x	x	x									
13 S. 1110		x	x		x		x	x	x	x									
14 S. 1963		x	x			x	x	x	x	x									
15 S. 2062		x	x		x		x	x	x	x									
16 S. S1a 0015							x				x						x		
17 S. S1a 0031		x	x					x						x					

Table App.I. 17b

App.I 18 – Group 57: c.1704-1727, (18 + 3 printed vols.) – see Chapter 3.1.6



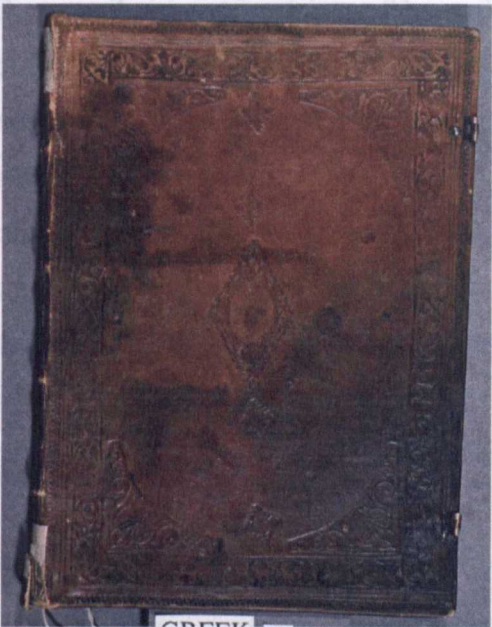
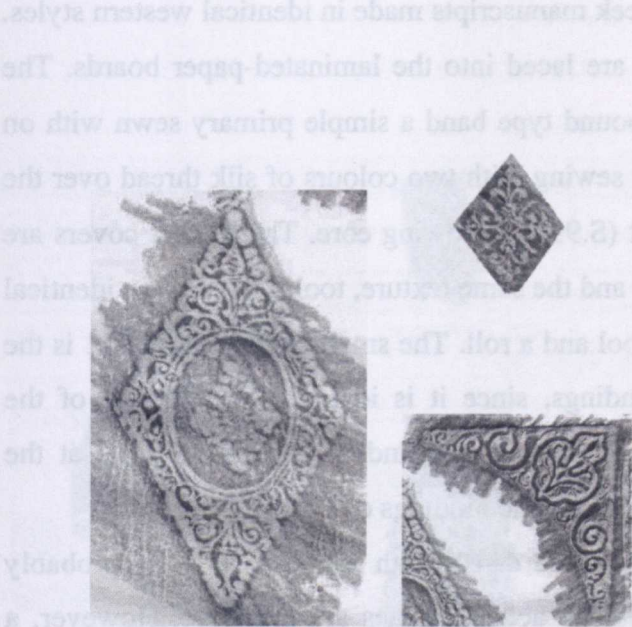
S.1779

S.1918

Manuscript Number	MS Date in Catalogues	Content	Binding
S.81	1664	Old Testament	Rebound
S.400	12 th c.	Asctica	Rebound
S.540	1707	Lives of Saints	First binding
S.686	17th c.	Anthologion and services	First binding
S.705	16th c.	Anthologion and services	Rebound
S.841	15th c.	Theotokarion	Rebound
S.1056	16th c.	Liturgy	Rebound
S.1057	16th c.	Liturgy	Rebound
S.1210	1695	Varia	First binding
S.1711	18th c.	Canonica	First binding
S.1779	18th c.	Sayings of the Fathers	First binding
S.1812	18th c.	Varia	First binding
S.1871	18th c.	Varia	Rebound
S.1918	18th c.	Sayings of the Fathers	First binding
S.2019	1601	Old Testament	Rebound
S.2125	16th c.	Theologica	Rebound
S.2170	18th c.	Sayings of the Fathers	First binding
S.2289	18th c.	Varia	First binding

Table App.I. 18

App.I 19 – Group 67: c.1664 to early 18th c., (5) – see Chapter 3.1.9 (4)

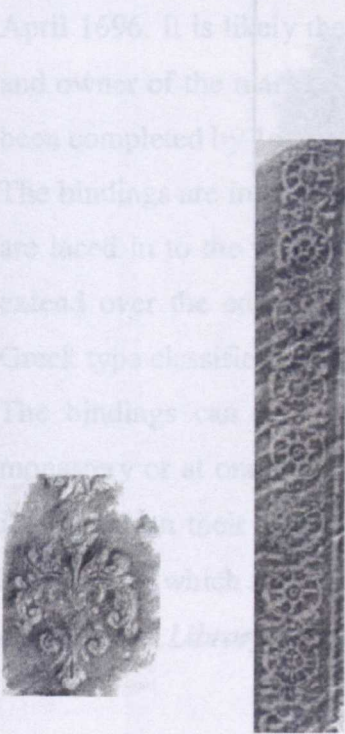


S.73

Manuscript Number	MS Date in Catalogues	Content	Binding
S.73	1620	Old Testament	First binding
S.92	1563	Old Testament	Rebound
S.295	14th c.	New Testament	Rebound
S.488	18th c.	Ascetica	First binding
S.696	14th c.	Anthologion and services	Rebound

Table App.I. 19

App.I 20 – Group 68: 17th c., pre-1671 (2)



S.992

Group 68 consists of two bindings on Greek manuscripts made in identical western styles. They are sewn on cord supports, which are laced into the laminated-paper boards. The endbands are in both bindings of a compound type band a simple primary sewn with on one core without a bead and a secondary sewing with two colours of silk thread over the primary sewing with (S.1931) or without (S.992) a crowing core. The leather covers are goat skins that have the same reddish hue and the same texture, tooled in blind in identical patterns with two tools, one small hand tool and a roll. The small hand tool Hf.st31 is the most important feature of these two bindings, since it is identified as TOOL 4 of the finishing tool finds. It is also recorded on three more bindings on manuscripts at the library, two of which (S.377, S.1417) are among the bindings of *Group 13*, c.1665.

Group 68 was probably active around the same date. Both manuscripts were probably written during the seventeenth century but no accurate dates are available. However, a note in S.992 states that the manuscript was at the monastery in 1671. This manuscript is in its first binding and therefore it may be assumed that it was bound before 1671.

Manuscript Number	MS Date in Catalogues	Content	Binding
S.992	17th c.	Euchologia	First binding
S.1931	17th c.	Liturgy	First binding

Table App.I. 20a



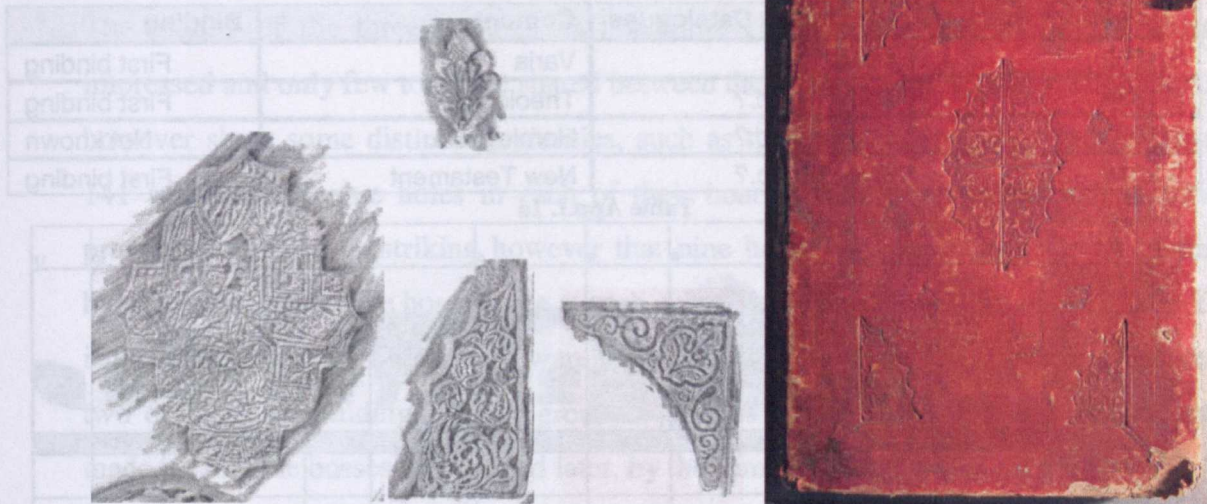
	1	2
Tool		
Manuscript	Rr.rg06	Hf.st31
S. 992	x	x
S. 1931	x	x

Table App.I. 20b

App.I 21 – Group 69: c.1694 / end of 17th c. Or beginning of the 18th., (4)



S.1632

There are four bindings in *Group 69*, on Greek manuscripts that were probably written in the late seventeenth or the early eighteenth century. All four are the first bindings for the manuscripts they cover, which means that, based on the dated manuscript **S.1632**, this workshop can be dated to c.1694. A colophon note in **S.1873** mentions that the manuscript was written by the Sinai monk *Silvestros* and an ownership note by a different hand in **S.1873**, states that this manuscript belonged to monk *Silvestros* and is dated to April 1696. It is likely the same name *Silvestros* also refers to that same person, a scribe and owner of the manuscript. Regardless of this fact the manuscript is confirmed to have been completed by 1696, around which date we may also place the date of its binding.

The bindings are in most aspects western in style. They are sewn on cord supports, which are laced in to the laminated-paper boards. The endbands however are Greek since they extend over the edges of the boards and are sewn to them, while one has the distinct Greek type classified by Boudalis (2007) as *compact-chevron-with-crowning-core*.

The bindings can with some reservation be attributed to a workshop located at the monastery or at one of its dependencies in Sinai. This is derived from seven of the tools impressed on their covers, which are linked strongly with the monastery through other bindings on which they are found. The tools Ct.cx01, and Hf.fe09 are found on bindings of the “*New Library*” – *Group 18*, which is undoubtedly of a St Catherine’s origin, while

Hf.fe09 and Lf.fw03 are identified as TOOL 10 and TOOL 34 respectively, from the finishing tool finds.

Manuscript Number	MS Date in Catalogues	Content	Binding
S.1632	1694	Varia	First binding
S.1838	Early 18th c.?	Theologica	First binding
S.1873	Early 18th c.?	Horologion	Not known
S.2016	Early 18th c.?	New Testament	First binding

Table App.I. 1a



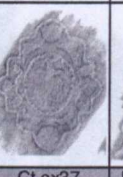

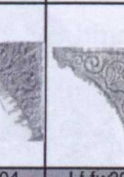



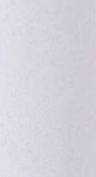
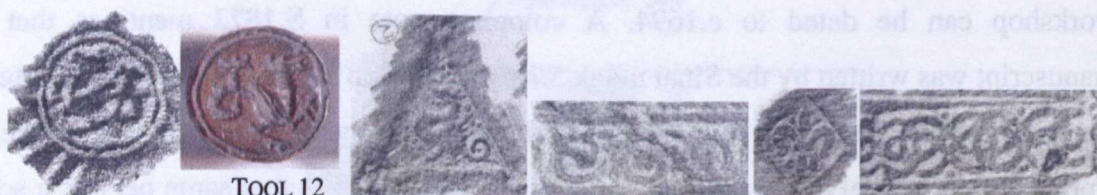
	1	2	3	4	5	6	7	8	9	10	11
Tool											
Manuscript	Cl.sa06	Cl.cx01	Cl.cx37	Lf.fw03	Lf.fw04	Lf.fw39	Hf.st20	Rf.fw09	Hf.fe09	Hf.rs235	~
S. 1632				x			x		x		
S.1838	x	x		x	x	x					x
S. 1873			x	x			x				
S. 2016							x	x		x	

Table App.I. 7b

App.I 22 – Group 71: c.1520-1532



There are three bindings in this group. S.A.320, S.663 from the monastery's library and Barocci 141 from the Bodleian Library in Oxford. The bindings are Greek, carrying

features that resemble Cretan bindings of the sixteenth century, such as compound endbands with chevron secondary sewing, the decorative pattern B8 on the covers of S.663 and the tools Ha.dr09 and Ho.it07, similar to those that were encountered on Cretan bindings of *Group 29 – “Apostolis bindings”*.

The tooling of the three bindings is not entirely homogenous. A variety of tools is impressed and only few tools are shared between them (see Table App.I 8). The structures however show some distinct similarities, such as the identical endbands and in Barocci 141 and S.A.320 nine holes in each of their boards, which are probably remnants of previous bosses. It is striking however that nine holes are found since Greek bindings have almost always five bosses: one at each corner and one at the centre of the board. This is the first instance as far as I am aware that nine bosses were used. Finding this feature on two of the three bindings of this group is perhaps a suggestion that the bindings were made, or that the bosses were added later, by the same person.

Based on their structural and decorative features these bindings would have probably been attributed to a Cretan workshop, although we lack notes or other archival evidence to suggest this. The impressions of tool Ha.dr14 on Barocci 141 and S.663 are interesting. They have been identified to derive from TOOL 12 of the finishing tool finds. It is not safe perhaps to say with certainty that these bindings were made at Sinai, based on one tool, since this may have been brought to the monastery from Crete along with the two bindings. However, it is a possibility that may also not be excluded altogether, as the fact that one of the bindings is covering an Arabic manuscript suggests that it was most probably made in an environment with a Christian-Arabic population such as the monastery.

The dates of the bindings are roughly calculated based on the manuscript dates of S.663 and Barocci 141, which were written in 1520 and pre-1532 respectively. Barocci 141 has a note on its left endleaves mentioning an earthquake that happened on the 2nd of March 1532, therefore the binding must have been made before that.














		1	2	3	4	5	6	7	8	9	10	11	12	13
Tool														
Manuscript	Ha.dr14	Ha.dr09	Hf.fl32	Ho.it07	Hf.fe80	Hf.fw86	Hf.fw85	Hf.fw104	~	~	~	~	~	~
1 S.A.320			x	x				x						
2 S.663	x	x	?		x	x	x							
3 Oxford Barocci 141	x			x					x	x	x	x		

Table App.I. 2

Manuscript Number	MS Date in Catalogues	Content	Binding
S.A.320	1236	Lives of Saints	Rebound
S.663	1520	Anthologion and services	First binding
Barocci 141	Pre-1532	St John Sinaitis Climacus	First binding

Table App.I. 8b

App.I 23 – Group 72: Unknown date, (2)



This group consists of two bindings with an ambiguous date, they are also not a characteristic match so as to assume that they come from one workshop. Their structures differ in several ways, **S.1067** being a purely western binding, while **S.1691**, which is sewn with an unsupported sewing structure and Greek endbands sewn to the wooden boards resembles more a Greek binding. The manuscripts are unfortunately not dated; however in the catalogues of Kamil and Gardthausen it is assumed that they were both written in the sixteenth century.

The only similarity between these two bindings is that two tools have been used on both of them, Hf.fw72 and Hf.rs16. The impression of the centre-piece Cf.fw01 four times on each of the covers of **S.1067** is the only indication that this binding may have been made at the monastery or at a dependency of the monastery, since this tool is identified as TOOL 31 among the finishing tools at the monastery.

Current evidence does not allow for further speculation about these two bindings, and whether they were made indeed in the same workshop, or whether the use of the two tools in common was coincidental. Further research on more bindings that may be identified with these tools, perhaps from the printed books collection of the monastery may provide the answers regarding the origin and date of these two bindings.

Manuscript Number	MS Date in Catalogues	Content	Binding
S.1067	16th c.	Liturgy	Not known
S.1691	16th c.	Sayings of the Fathers	Not known

Table App.I. 23a






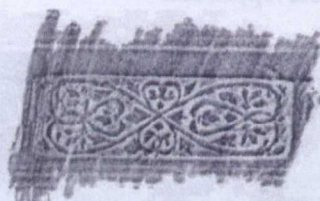
		1	2	3	4	5
	Tool					
	Manuscript	Cf.fw01	Hf.fw72	Hf.rs16	Hf.fl88	Ho.kn14
1	S. 1067	x	x	x		
2	S. 1691		x	x	x	x

Table App.I. 23b

APPENDIX II

List of groups of bindings imported to the St Catherine's library

App.II 1 - Group 1: Crete, 1522- 1570, (10) – see Chapter 3.2.3



S.441

Manuscript Number	MS Date in Catalogues	Content	Binding
S.276	1224	New Testament	Rebound
S.322	14th c.	Sayings of the Fathers	Rebound
S.375	893	Sayings of the Fathers	Rebound
S.441	1088	Ascetica	Rebound
S.603	15th c.	Menologion	First binding
S.881	16th c.	Horologion	Rebound
S.1428	1468	Menologion	First binding
S.2051	16th c.	New Testament	First binding
British Library Royal 1A.xv			First binding

Table App.II 1a

App.II 2 - Group 2: Mar Saba (?), c.1475-1482, (4) - see Chapter 3.2.1



Manuscript Number	MS Date in Catalogues	Content	Binding
S.712	1482	Anthologion and services	First binding
S.980	1475	Euchologia	First binding
S.1991	14th c.	New Testament	Rebound
British Library Add.11838	1326	Gospels	Rebound

Table App.II 2

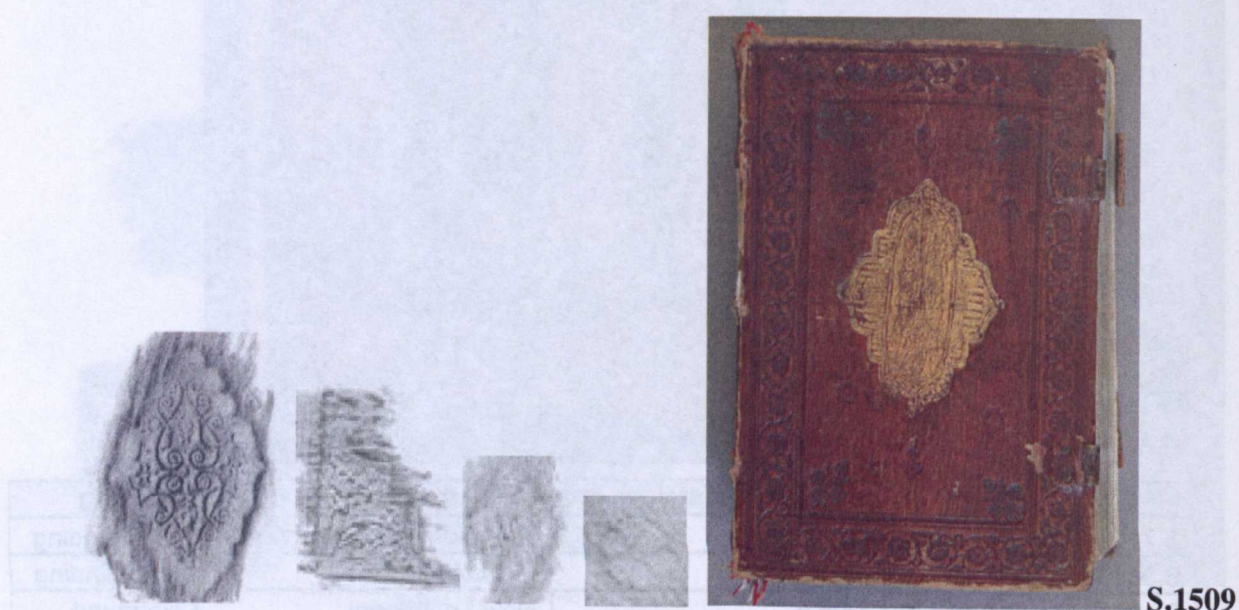
App.II 3 - Group 3: “*Cosmas Makedon I*”, early 18th century. c.1715-1724, (12)

This group, as well as the three groups that follow (*Group 5, 9 and 17*) are related to the well-known scribe of music manuscripts of the last quarter of the seventeenth century, Cosmas Makedon from Mount Athos who lived and wrote in Mount Athos.

The bindings of his manuscripts are very likely to have been bound locally, in Mount Athos or perhaps by other professional workshop/s in Northern Greece. In this thesis four groups of bindings have been identified which seem to relate to one another by the fact that they share certain finishing tools and certain structural characteristics. Their dissimilarities however are pronounced and suggest that they are the products of four different workshops or of one workshop at different phases. Moreover, not all of these manuscripts are confirmed to relate to Cosmas Makedon, but it is due to the finishing

tools that they have in common, and the similar binding structures on identified manuscripts by him that his name is connected with all four groups.

Several more bindings that appear to match one of these four “*Cosmas Makedon*” groups have been recorded or can be expected to be found in Greek libraries, and it may be assumed that they were made by professional workshops with a considerable production of bindings.



Group 3 consists of 11 bindings, of which six are dated to the beginning of the eighteenth century, three to the seventeenth, one to the sixteenth and one to the thirteenth century. Varvounis (2004, pp.203-212), reproduced three more bindings without shelfmarks from three different libraries in Samos that also fall in this group. Seven more bindings are possibly part of this group, the tools from which are reproduced in Athanasiadis (2004, pp.119-162) and which were recorded on bindings from libraries in Mount Athos, Andros, Zagora, Cyprus, Leros and Rhodes.

Manuscript Number	MS Date in Catalogues	Content	Binding
S.1149	1715	Theologica	First binding
S.1248	17th c.	Triodion and Pentekostarion	First binding
S.1465	18th c.	Music	First binding
S.1484	13th c.	Music	Rebound
S.1509	17th c.	Music	First binding
S.1687	18th c.	Varia	First binding
S.1715	18th c.	Varia	First binding
S.1876	18th c.	Canons	First binding
S.2082	18th c.	Historica	First binding
S.2087	17th c.	Music	First binding
S.Slav.10	16th c.	Biblica (Old Testament?)	Rebound

Table App.II 3a





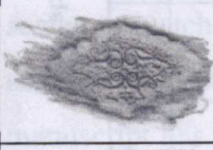
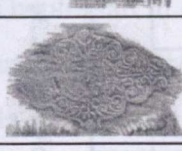



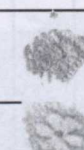

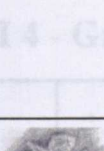
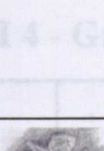
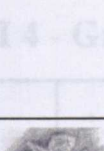
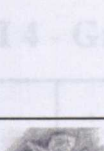
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Tool																
Manuscript		Ct.ag01	Co.ao13	Ct.sa05	Ct.fe05	Co.ao09	Ct.ev01	L.f.fe01	Hf.rs11	Hf.sl26	Hf.sl06	Hf.sl15	Hf.rs39	Hf.sl78	Hf.sl36	Hf.sl11
1 S.1149					x	x			x	x	x	x		x		
2 S.1248		x				x			x		x					
3 S.1465			x				x		x			x		x	x	x
4 S.1484						x	x		x			x		x	x	x
5 S.1509									x	x						x
6 S.1687			x		x			x		x	x		x			
7 S.1715		x				x		x				x	x			
8 S.1876						x	x	x	x							x
9 S.2082								x			x					
10 S.2087								x	x							
11 S.2171												x				
12 S.Slav.10									x		x					

Table App.II 4




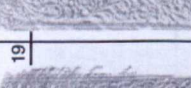
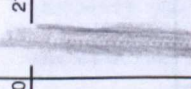




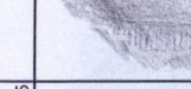



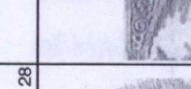
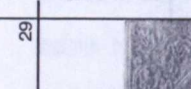
		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	Tool															
	Manuscript	Hf.st97	Hf.rs48	Rf.fw03	Rf.fw11	Rf.fw12	Ro.ob55	Rr.rg09	Rf.fw123	Rr.rg11	Cf.fe04	Co.ao46	Co.kn01	Ct.cx11	Lf.fw02	Unidentified
1	S.1149				x		x		x							
2	S.1248			x												
3	S.1465	x			x											
4	S.1484		x			x										
5	S.1509		x		x						x					
6	S.1687			x			x	x								
7	S.1715			x	x		x									x
8	S.1876			x		x									x	
9	S.2082									x						
10	S.2087															
11	S.2171												x			x?
12	S.Slav.10			x										x		

Table App.II. 3c

App.II 4 - Group 5: “Cosmas Makedon II”, c.1680-1692 (12)



This group of “*Cosmas Makedon bindings*” was identified by Boudalis (2004, pp.306-323) as consisting of two St Catherine’s manuscripts and six from the Iviron monastery in Mount Athos. There are 10 more bindings at the monastery that were made in this workshop and I have also identified one more binding at the monastery of Saint John Theologian in Patmos, which is codex Patm.559. Two St Catherine’s manuscripts, **S.1469** and **S.1478**, are the most revealing of all, since they were signed by Cosmas Makedon and dated to 1689 and 1690 respectively. **S.1580** is dated to 1720 and although its binding seems to match this group the date of the manuscript is later. Something similar can be said about **S.2080**. The binding is a perfect match to the rest of the group; however, the manuscript has a composite text. Along with a seventeenth century text a will at the end of the textblock and a sequence of statements dated to 1780, 1781 and 1782, suggest that this volume was bound before these last sections were written, as a blank notebook.

The bindings of this group conform to the same style of western bindings with wooden boards, with squares around the edges of the textblocks and internal bevels and supported sewing on cords. The endbands of this group are of a very characteristic kind. Boudalis describes them and due to their uniqueness names them as the “*Iviron monastery endbands*” (Boudalis 2007, p.44). They consist of a primary endband of the *sewn without bead* type and a secondary sewing of plain weaving, using yellow and blue silk threads, and wrapped around a crowning core.

A total of 31 finishing tools were recorded on the 12 bindings. Among these, there are five centre-pieces, 14 corner-pieces, eight rolls and 9 small hand-tools. Four of these bindings are tooled in a combination of blind and gold, one is fully in gold, three are in a combination of silver and blind tooling and four are tooled only in blind.

The decorative style and the layouts observed refer to a period of bookbinding when centre-pieces and corner-pieces were the prominent features, often with theological representations. This style which first appeared in the mid sixteenth century, influenced by the decorative fashion of Eastern European workshops was never to be abandoned for the decoration of Greek books.

Manuscript Number	MS Date in Catalogues	Content	Binding
S.121	17th c.	Old Testament	First binding
S.1237	17th c.	Sticherarion	First binding
S.1433	17th c.	Music	First binding
S.1456	1494	Music	Rebound
S.1469	1689	Music	First binding
S.1478	1690	Music	First binding
S.1556	1690	Music	First binding
S.1580	1720	Music	First binding
S.1621	17th c.	Canonica	First binding
S.1818	17h c.	Varia	First binding
S.2011	17th c.	Liturgy	First binding
S.2080	17th c.	Sayings of the Fathers	Parts Rebound

Table App.II 4a




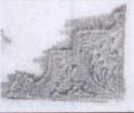
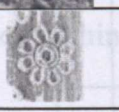

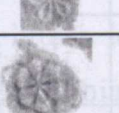

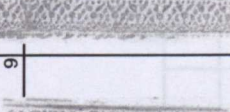
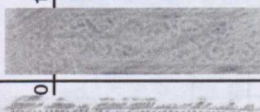

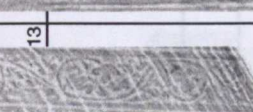

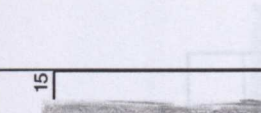
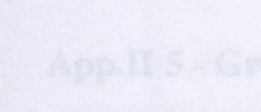
		1	2	3	4	5	6	7	8	9	0	1	12	13	14	15
	Tool															
	Manuscript	Ct.sa01	Co.ac05	Lf.fe03a,b	Lt.fe01a,b	Hf.rs12	Hf.rs14	Hf.rs143	Hf.rs171	Ro.ob02	Hf.fw121	Ro.ob08	Rf.fw133	Rf.fw25	Rf.fw115	Ho.ob02
1	S.121	x		x			x			x						
2	S.1237	x	x	x		x				x						
3	S.1433	x	x		x	x					x					
4	S.1456	x	x		x	x						x				
5	S.1469												x			
6	S.1478	x	?	x		x				x						
7	S.1556	x	x	x		x				x						
8	S.1580	x	x											x		
9	S.1621	x	x												x	
10	S.1818	x	x		x											
11	S.2011				x		x					x				x
12	S.2080	x	x		x											

Table App.II 4b


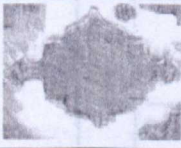
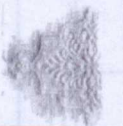



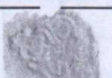



		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	Tool																
	Manuscript	Cl.cx27	Cl.re05	Cl.fe03	Lt.ev04.a-b-c-d	Lt.ev10a-d	Lt.fw44	Ht.ot05	Ho.kn54	Hf.st179	Hf.st145	Hf.st65	Hf.st115	Hf.st229	Ho.ac94	~	Unidentified
1	S.121																
2	S.1237																
3	S.1433																
4	S.1456							x									
5	S.1469		x		x		x				x	x					
6	S.1478																
7	S.1556																
8	S.1580	x			x					x						x	
9	S.1621														x		
10	S.1818																
11	S.2011			x		x											
12	S.2080																

Table App. II 4c

App.II 5 - Group 9: “Cosmas Makedon III”, c.1673 (2)



This group is identified consists of two bindings only, which are made in identical western style, with stuck-on endbands and textblocks sewn on cord supports. Their reddish-brown leather covers are tooled with a combination of gold and silver tooling using 13 finishing tools in total out of which six are used on both bindings.

The tool Lf.fw02 which also appears on *Group 3* is the link of this group with the other Cosmas Makedon groups. However, further research on more bindings that may be identified within this group is required to establish the provenance of this workshop.

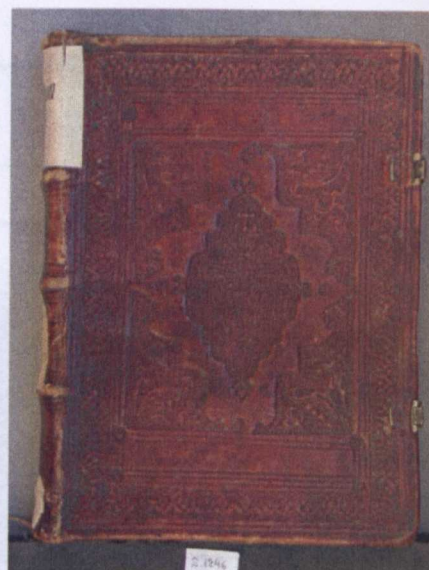
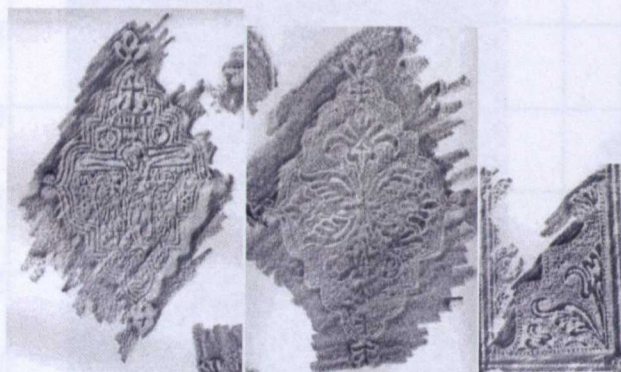
Manuscript Number	MS Date in Catalogues	Content	Binding
S.1239	17th c.?	Sticherarion	First binding
S.1849	1673	Historica	First binding

Table App.II 5

		1	2	3	4	5	6	7	8	9	10	11	12	13
Tool														
Manuscript		Ct.cx08	Co.ao12	Lf.fw02	Lt.ag03	Lt.ev05a-d	Rf.fw18	Hf.st186	Hf.st185	Hf.st30	Hf.st113	Hf.st09	Hf.st44	Unidentified
1	S. 1239	x	x	x	x	x	x	x	x	x				x
3	S. 1849	x	x	x	x					x	x	x	x	?

Table App.II 5b

App.II 6 - Group 17: “Cosmas Makedon IV”, c.1675-1691, (5)



S.1249

There are five bindings in this group which share the same ten finishing tools and the same western bookbinding features.

The textblocks of two of these manuscripts, **S.1246** and **S.1505** have been signed and dated by their scribes to 1691 and 1675 respectively. Considering that these bindings are the first for these manuscripts, based on the lack of repair and rebinding evidence, we may assume that the bindings are dated around these dates too. Another note on S.1505 is also worth mentioning. It is an ownership note which reads:

f.225: “*From the [collection of] Nikeforos Glykys Sinaitis the Cretan, 1692*”

On the next folio a similar note is found:

“the present ...stichirarion belongs to me monk Nikeforos Glykys and abbot of the monastery of Rimniki of Wallachia and I dedicate this after my death to the church of the holy monastery of the God-trodden Mount Sinai...”

They are sewn with supported sewing on cord cores, which are then laced in the laminated-paper boards. Two types of endbands are distinguished, a *sewn with front bead and crowning core* and an “*Iviron monastery endband*” (Boudalis 2004, p.44) the latter being identical to the endbands of most bindings from *Group 5*.

Manuscript Number	MS Date in Catalogues	Content	Binding
S.1246	1691	Triodion and Pentekostarion	First binding
S.1491	17th c.	Music	First binding
S.1505	1675	Music	First binding
S.1551	Not known	Music	First binding
S.2060	17th c.	Old Testament	First binding

Table App.II 6a






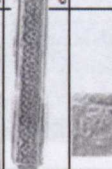

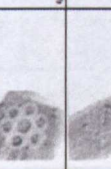
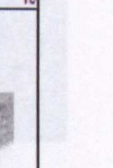

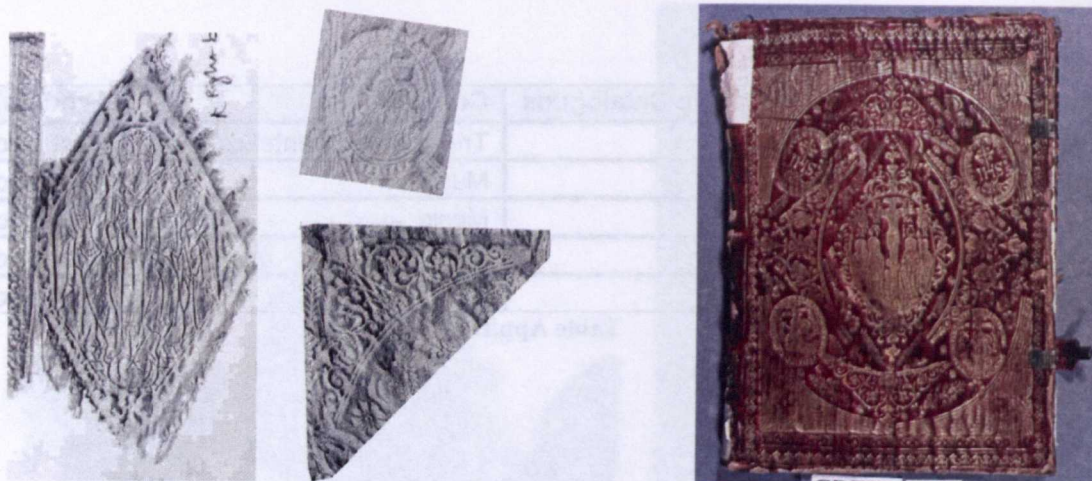
	Tool	1	2	3	4	5	6	7	8	9	10
Manuscript											
		Cfe12	Cfe13	Cfc02	Cfe03	Lffe01a,b	Hfwi21	Hfwi14	Hfwi224	Hfwi188	Hfwi137
1	S. 1246	x		x		x	x		x		
2	S. 1491		x			x				x	
3	S. 1505				x	x					
4	S. 1551		x	?		x					
5	S. 2060				x	x	x	x			x

Table App.II 6b

App.II 7 - Group 21: Walachia, c.1638 -1641 (3) – see Chapter 3.2.7



S.1052

Manuscript Number	MS Date in Catalogues	Content	Binding
S.69	16th c.	Old Testament	Rebound
S.1052	1641	Liturgy	First binding
S.2012	17th c.	Liturgy	First binding

Table App.II 7a

		1	2	3	4	5	6	7	8	9
Tool	Manuscript									
		Ct je05	Ct cx11	Ct cf03	Cm ls01	Lt ev17a	Lt ev17b	Lt ev17c	Lt ev17d	Lt ag01
1	S.69	x	x	x	x					x
2	S.1052	x	x	x	x					x
3	S.2012	x		x		x	x	x	x	
	Iviron 1527	x	x	x	x					x

Table App.II 7b

		10	11	12	13	14	15	16	17	18	19	20
Tool	Manuscript											
		Lf fw28	Lf fw32	Lf fw29	Rf fe12	Rf fw108	Ht ag02	Hf st23	Hf st42	Hf st58	Hf rs42	-
1	S.69	x	x		x	x	x	x	x		x	x
2	S.1052		x	x	?		x	x				x
3	S.2012		x	x			x		x	x	x	x
	Iviron 1527		x	x	x		x	x			x	x

Table App.II 7c

App.II 8 - Group 24: Crete (?), c.1658-1661 (11)



83

There are eleven bindings in this group which are closely related to a Cretan scribe and monk named Gerasimos Yalinas. His manuscripts in this group, as well as others at the St Catherine's library which are linked to his name are all music manuscripts. In one of these, **S.1584** he also testifies that he

completed that manuscript in Crete during the siege of the island by the Turks, and that he wrote it at the dependency of the monastery of St Catherine in Crete, which proves a further link of this scribe with the monastery.

Two notes in **S.1775** are further revealing for this group. One is a remembrance note dated in April 1661 by a monk named Iosiph Vartzalis. The other note reads:

"the present [book] I Daniel from Lesvos brought it from Zakynthos"

It is apparent that this manuscript was in Zakynthos at some point prior to being brought to the monastery. Zakynthos was a place where many of the monks from the dependency of the monastery went after the fall of Crete to the Turks and it is possible that many manuscripts, like **S.1584**, were taken there.

The bindings present two distinct categories: those that are bound in a purely Greek tradition, with the exception of the decoration which is influenced by Italian motifs, and the western bookbindings, making use of sewing supports, laminated-paper boards and endbands which are laced into the boards instead of being sewn into them. This fact demonstrates that the workshop responsible for these bindings was familiar with both traditions of bookbinding.

Manuscript Number	MS Date in Catalogues	Content	Binding
S.1416	1658	Music	First binding
S.1440	17th c	Music	First binding
S.1451	1658	Music	First binding
S.1452	1661	Music	First binding
S.1490	17th c.	Music	First binding
S.1545	16th c.?	Music	First binding
S.1557	17th c.	Music	First binding
S.1563	17th c.	Music	First binding
S.1775	18th c.	Theologica	First binding
S.2083	17th c.	Music	First binding
S.2264	17th c.	Varia	First binding

Table App.II 8a

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Tool																						
Manuscript																						
1 S.1416	Hf.1v2	Hf.1v2	Hf.1v2	Hf.1v2	Hf.1v2	Hf.1v2	Hf.1v2	Hf.1v2	Hf.1v2	Hf.1v2	Hf.1v2	Hf.1v2	Hf.1v2	Hf.1v2	Hf.1v2	Hf.1v2	Hf.1v2	Hf.1v2	Hf.1v2	Hf.1v2	Hf.1v2	Hf.1v2
2 S.1440																						
3 S.1451																						
4 S.1452																						
5 S.1490																						
6 S.1545																						
7 S.1557																						
8 S.1563																						
9 S.1775																						
10 S.2083																						
11 S.2264																						

Table App.II 8b

App.II 9 - Group 28: Crete c.1530-1577 (9) – see Chapter 3.2.4



S.622

Manuscript Number	MS Date in Catalogues	Content	Binding
S.87	1565	Old Testament	First binding
S.352	1320	Sayings of the Fathers	Rebound
S.418	12th c.	Ascetica	Rebound
S.601	1530	Menologion	First binding
S.622	1530 ?	Menologion	First binding
S.924	16th c.	Horologion	First binding
S.940	1531	Horologion	First binding
S.989	16th c.	Euchologia	First binding
S.1344	15th c.	New Testament	First binding

Table App.II 9a

		1	2	3	4	5	6	7	8	9	10	11	12	13	14
Tool	Manuscript														
		He dr04	Hf fw21	Hf fw76	Hf fw75	Hf fw80	Hf rs30	Hf st217	Hf rs09	Hf le01	Hf rs29	Ch oh01	Hm. is02	Hf fw68	~
1	S. 87	x	x					x	x	x					
2	S. 352	x		x	x				x	x	x				
3	S. 418			x		x	x		x	x	x				x
4	S. 601	x		x	x				x		x				x
5	S. 622	x		x					x		x	x			x
6	S. 924	x		x			x		x						x
7	S. 940			x			x		x		x				x
8	S. 989			x	x		x				x				x
9	S. 1344	x						x	x				x	x	

Table App.II 9b

App.II 10 - Group 29: Crete, c.1465-1514 (39) - see Chapter 3.2.2



S.1251

Manuscript Number	MS Date in Catalogues	Content	Binding
S.0020	15th c.	Old Testament	Rebound
S.0165	15th c.	New Testament	First binding
S.0170	10th c.	New Testament	Rebound
S.0261	14th c.	New Testament	Rebound
S.0350	16th c.	Sayings of the Fathers	First binding
S.0363	1335	Sayings of the Fathers	Rebound
S.0588	1465	Menologion	Rebound
S.0594	15th c.	Menologion	Rebound
S.0616	15th c.	Menologion	First binding
S.0621	15th c.	Menologion	First binding
S.0643	16th c.	Anthologion and services	First binding
S.0752	15th c.	Triodion and Pentekostarion	Rebound
S.0770	15th c.	Triodion and Pentekostarion	First binding
S.0773	16th c.	Triodion and Pentekostarion	First binding
S.0839	15th c.	Theotokarion	Rebound
S.0850	15th c.	Theotokarion	First binding
S.0872	15th c.	Horologion	Rebound
S.0874	16th c.	Horologion	First binding
S.1145	16th c.	Theologica	First binding
S.1183	10th c.	Historica	Rebound
S.1194	1491	Varia	First binding
S.1234	1469		First binding
S.1251	15th c.	Sticherarion	Rebound
S.1252	15th c.	Music	Rebound
S.1255	15th c.	Music	First binding
S.1341	14th c.	Theologica	First binding
S.1349	15th c.	Varia	First binding
S.1353	15th c.	Sayings of the Fathres	First binding
S.1463	15th c.	Music	First binding
S.1506	14th c.	Music	Rebound
S.1552	16th c.	Music	First binding
S.1584	1425-1448?	Music	First binding
S.1613	14th c.	Commentary on the Bible	Rebound
S.1666	14th c.	Sayings of the Fathers	Rebound
S.1947	16th c.	Liturgy	First binding
S.1950	14th c.	Theologica	Rebound
S.1992	16th c.	New Testament	First binding
S.2101	1478	Menologion	First binding
S.2103	15th c.	Menologion	First binding

Table App.II

App.II 11 - Group 33: Crete, c.1529 (4) – see Chapter 3.2.6



Manuscript Number	Manuscript/Print Date in Catalogues	Content	Binding
Greek 1140	16th c.	Theologica	First binding
Greek 1656	16th c.	Theologica	First binding
S.Pr.227	1529	Letters of John Chrysostom	First binding
Nat.Lib. Athens 2359	1356	Gospels	First binding

Table App.II 11a













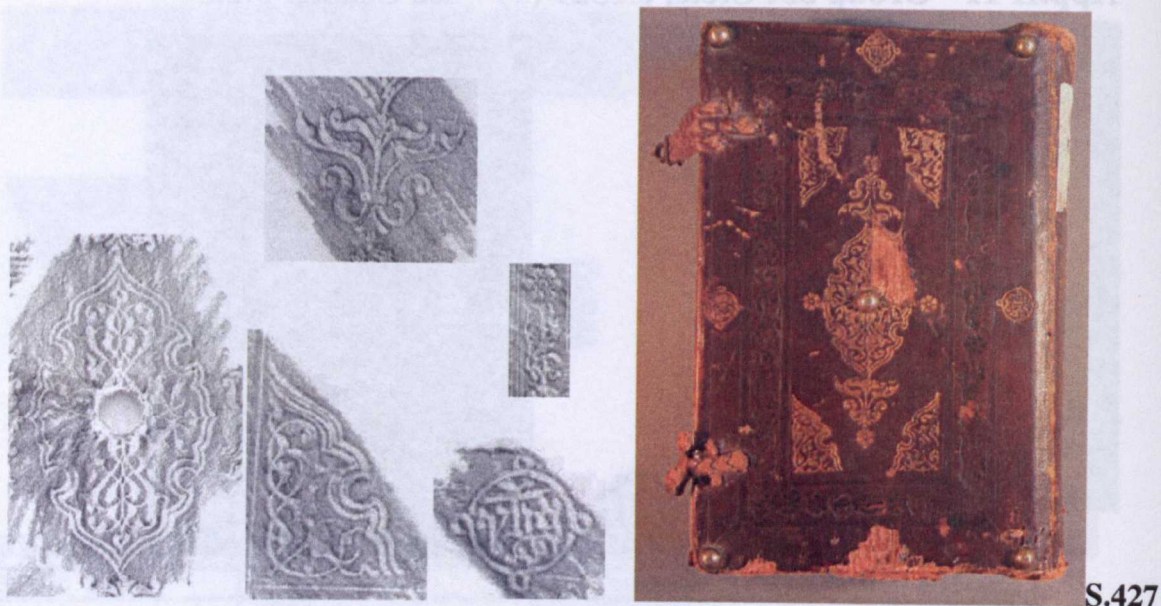
		1	2	3	4	5	6
	Tool						
	Manuscript						
		Ha.dr05	Ha.et46	Hf.fw26	Hf.fw38	5	~
1	S. 1140	x	x	x			x
2	S. 1656	x	?		x		x
3	S.Pr.227	x	x	x		x	x
4	Nat. Libr. Athens 2359	x	x	x		x	x
5	Barocci 211	x	x	x		x	x
6	Vat.gr.2341	x	x	x		x	x
7	Leg.Vat.gr.1509	x	x	x		x	x

Table App.II 11b

App.II 12 - Group 41: Crete (?), c.1544- end of sixteenth century (6)



There are six bindings in this group, which are tooled with a total of 19 finishing tools in blind or in gold. Regardless of their identical decoration this group is ambiguous in regards to the place of origin of the bindings and also in terms of the homogeneity of the structures. Firstly, it is observed that there is a complete lack of notes to help locate them. What is more, there are bindings in the group that are made in very different styles, some are typical Greek bindings with austere appearance and others are Italian style bindings sewn on supports and tooled in gold. Based on the fact that they all have identical tools while they combine these two binding traditions, it may be suggested that a workshop located in a place with influences from Italy and a Greek population such as Crete may be a likely provenance. This is further supported by the presence of two tools, Hf.st217 and Hm.is02 which were also impressed on bindings from *Group 28*, which are also most certainly from Crete, around the same period, c.1530-1577. It may be the case that these two workshops were related or that the tools of one passed on to the other at some point. Whichever is the case, it is more likely that they were both located in Crete.

The date of the bindings can be set roughly to the second half of the sixteenth century. Only one binding is in its first binding, S.2102 whose manuscript is unfortunately not accurately dated. **S.2106** is a manuscript dated to 1544 but it has been repaired, probably not long after. This is derived from the fact that its current binding has endleaves which were signed by Archbishop of the St Catherine's monastery, Laurentios, appointed between 1592-1617, which also testifies that the manuscript was already in Sinai by then.

Manuscript Number	MS Date in Catalogues	Content	Binding
S.427	14th c.	Ascetica	Rebound
S.1072	16th c.	Liturgy	Rebound
S.2102	15th c.?	Menologion	First binding
S.2106	1544	Sayings of the Fathers	Rebound
S.2110	1406	Typikon	Rebound
S.2132	14th c.	Old Testament	Rebound

Table App.II 12a




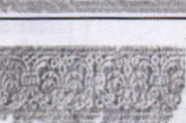

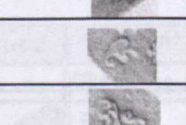
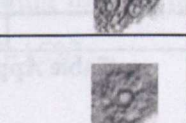
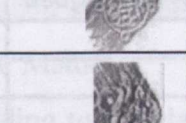


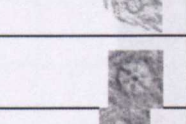
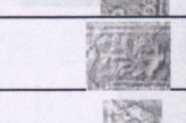
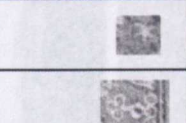
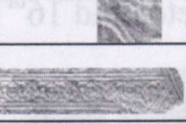
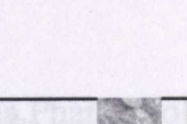
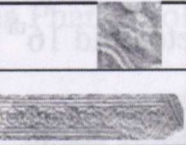
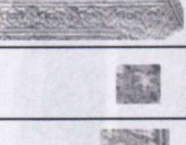
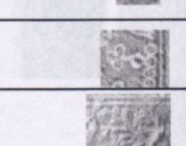
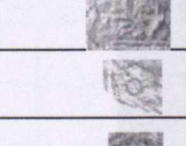
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Tool																			
Manuscript	Co 3014	Lo 3001	Hf st28	Hf fe10	Ro 1101	Hf st217	Hf st34	Hf rs41	Hf st218	Hm ls02	Co 3042	Hf st128	Hf rs164	Hf rs134	Hf st178	Ho 3091	Hf rs256	Rf fw125	~
2 S. 0427	x	x	x			x		x		x									
3 S. 1072		x			x			x	x										
4 S. 2102	x	x	x		x	x	x												
5 S. 2106	x	x	x	x		x	x												
6 S. 2110				x															
7 S. 2132 ?	x	x	x								x	x	x	x	x	x	x	x	x

Table App.II 12b

App.II 13 - Group 49: Crete, mid 16th c./ c.1544, (6) – see Chapter 3.2.5



S.1607

Manuscript Number	MS Date in Catalogues	Content	Binding
S.101	1534	Old Testament	Rebound
S.330	14th c.	Sayings of the Fathers	Rebound
S.331	16th c.	Sayings of the Fathers	First binding
S.1607	1431	Sayings of the Fathers	Rebound

Table App.II 13a

		1	2	3	4	5	6	7
	Tool							
	Manuscript	Hm.is01	Hg.cr01	Lo.ao03a	Lo.ao03b	Hf.fw120	Hf.fl15	Hf.st10
1	S.101		x					
2	S.330		x				x	x
3	S.331	x	x	x	x	x	x	
4	S.1607	x	x					x
5	S.Pr.124	x	x	x	x		x	
6	S.Pr.128	x	x	x	x		x	

Table App.II 13b

App.II 14 - Group 76: St Anastasia Pharmakolytria of Chalkidiki, 16th c. (2)



This group consists of two bindings that were made in a workshop at the monastery of St Anastasia Pharmakolytria in Chalkidiki, Northern Greece. This workshop has produced numerous bindings which were first identified by Dominique Grosdidier de Maton (1984, PhD Thesis) and which are sub-divided in to five different periods. These two bindings here can be attributed to group 1 of Grosdidier de Maton



S.347

which includes Décor I, Ia and Ib according to her classification. The two bindings here have Décor I and are thus dated to c.1520-1527.

Manuscript Number	MS Date in Catalogues	Content	Binding
S.347	11th c.	Sayings of the Fathers	Rebound
S.1529	16th c.	Music	First binding

Table App.II 14a

		1	2	3	4	5	6	7	8
	Tool								
	Manuscript	Hf.st24	Hg.cr02	Hf.fe68	Ho.kn51	Ho.it14	Hf.rs234	~	Unidentified
1	S.347	x	x	x	x	x	x	x	
2	S.1529	x	x				x		x

Table App.II 14b

APPENDIX III

List of un-attributable groups of bindings at the St.Catherine's library

App.III 1 -Group 6: 18th c, (3)



Manuscript Number	Manuscript Date	Content	Binding
S.1351	18th c.	Varia	First binding
S.1747	17th c.	Theologica	First binding
S.1897	14th c.	Lives of Saints	First binding

Table App.III 1










		1	2	3	4	5	6	7	8	9
	Tool									
	Manuscript									
		Ct.cx02	Ct.v05	~	Rf.fw16	~	~	Hf.rs03	~	
1	S. 1351	x	x	x	x					
2	S. 1747	x	x			x	x	x	x	
3	S. 1897							x		x

Table App.III 2

App.III 2 - Group 7: early 17th c. ? (4)



Manuscript Number	Manuscript Date	Content	Binding
S.154	11th c.	New Testament	2
S.650	17th c.	Anthologion and services	1
S.1695	17th c.	Sayings of the Fathers	4
S.2006	1612	Liturgy	4

Table App.III 2a






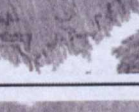

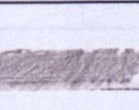



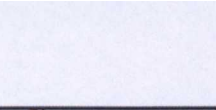
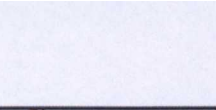
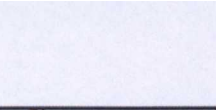
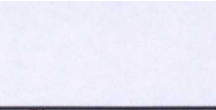
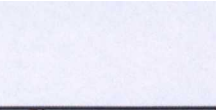
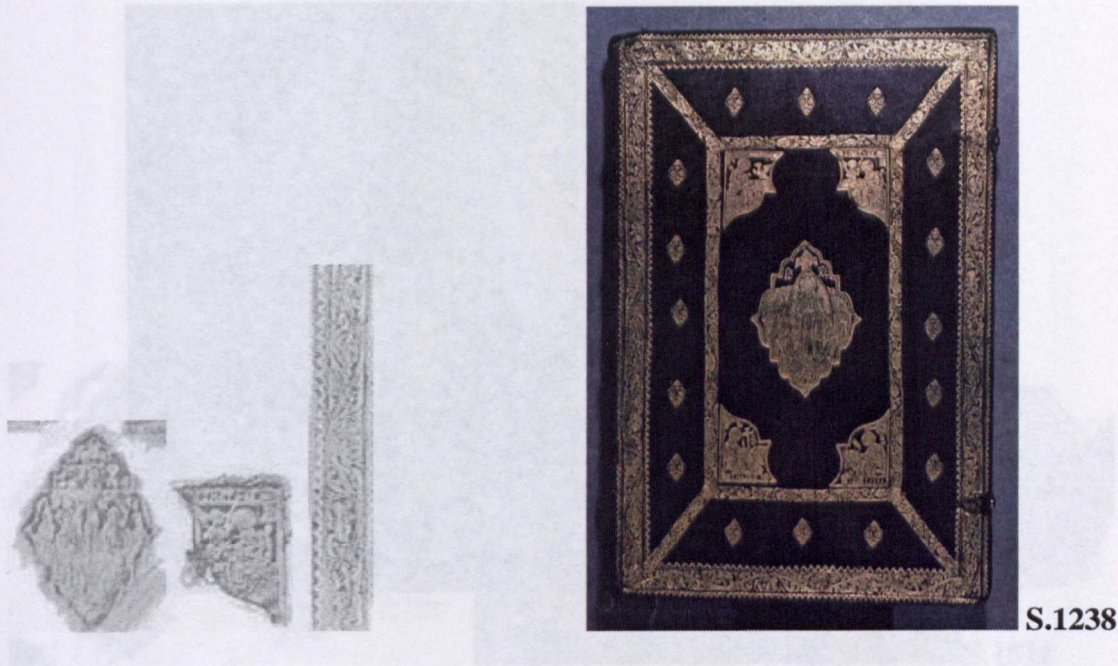
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Tool																
	Manuscript	Class 07	Class 01														
1	S. 0154	X	X	X													
2	S. 0659				X												
3	S. 1635																
4	S. 2006	X															

Table App.III 2b

App.III 3 - Group 10: 18th c., (4)



S.1238

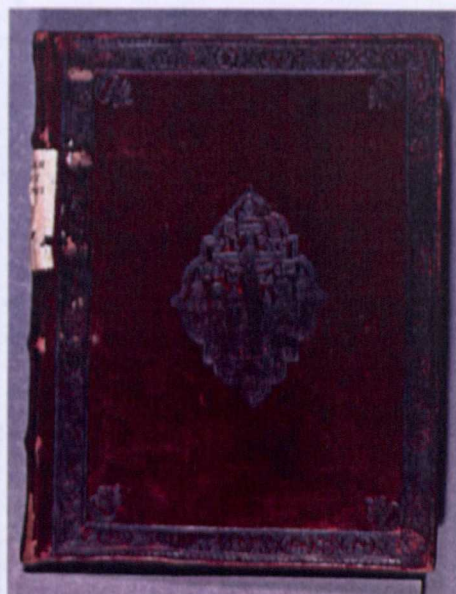
Manuscript Number	Manuscript Date	Content	Binding
S.1238	18th c.	Sticherarion	First binding
S.1263	17th c.	Music	Not known
S.1466	18th c.	Music	First binding
S.1581	18th c.	Music	Not known
S.1700	18th c.	Varia	Not known
S.1713	18th c.	Sayings of the Fathers	First binding
S.1883	15th c.	1883	Not known
S.2162	19th c.	Varia	Not known

Table App.III 3a

		1	2	3	4	5	6	7	8	9	10
Tool											
Manuscript		Ct.cx09	Ct.re02	Lt.ev02.a-b-c-d	Rf.fw04	~	~	~			
1	S. 1238	x	x	x	x	x	x	x			x
2	S. 1263	x	x	x	x						x
3	S. 1466	x	x	x	x				x	x	x
4	S. 1581	x	x	x	x				x		x

Table App.III 3b

App.III 4 - Group 11: 18th c., (4)



S.1865

Manuscript Number	Manuscript Date	Content	Binding/ MS
S.1001	17th c.	Euchologia	First binding
S.1782	18th c.	Sayings of the Fathers	First binding
S.1865	18th c.	Sayings of the Fathers	First binding
S.2183	17th c.	Varia	First binding

Table App.III 4a

		1	2	3	4	5	6	7
Tool								
Manuscript								
		Cl.v02			Ho.a014		Unidentified	
1	S. 1001	x	x		x			
2	S. 1782				x			
3	S. 1865	x	x	x	x			
4	S. 2183				x	x	x	x

Table App.III 4b

App.III 5 - Group 19: c.1697 (2)



Manuscript Number	Manuscript Date	Content	Binding
S.943	1697	Horologion	First binding
S.1518	18th c.	Music	First binding

Table App.III 5a












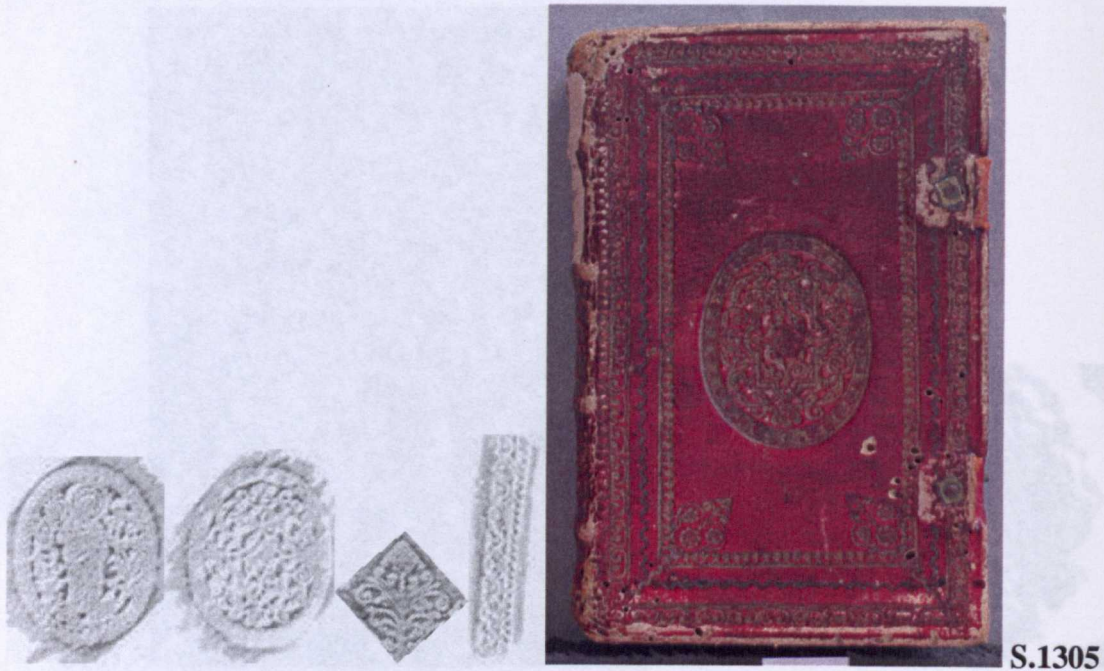
	1	2	3	4	5	6	7	8	9	10	11
Tool											
Manuscript	Ct.ot01	a-b-c-d									
S. 0943	x	x	x	x	x	x					
S. 1518	x						x	x	x	x	x

Table App.III 3

App.III 6 - Group 20: 17th c., (3)



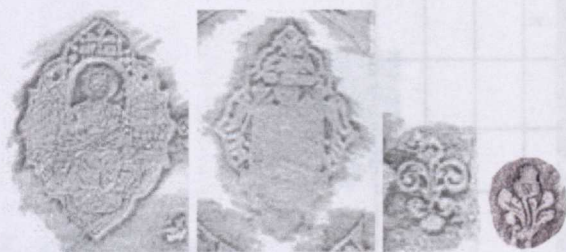
Manuscript Number	Manuscript Date	Content	Binding
S.267	14th c.	New Testament	Rebound
S.1150	17th c.	Theologica	First binding
S.1305	16th c.	Music	Rebound

Table App.III 6a

		1	2	3	4	5	6	7	8	9	10	11
Tool	Manuscript											
		Ct.ot02										
1	S. 0267	x	x	x	x							
2	S. 1150	x	x			x	x					
3	S. 1305	x	x					x	x	x	x	x

Table App.III 6b

App.III 7 - Group 23: 18th c., (8)



S.1437

Manuscript Number	Manuscript Date	Content	Binding
S.1437	17th c.	Music	First binding
S.1510	18th c.	Music	First binding
S.1519	19th c.	Music	First binding
S.1583	18th c.	Music	First binding
S.1752	18th c.	Varia	First binding
S.1764	18th c.	Varia	First binding
S.1910	18th c.	Varia	First binding
S.2129	18th c.	Theologica	First binding

Table App.III 7a


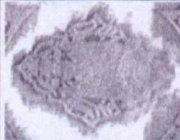


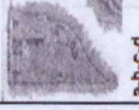







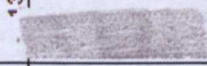

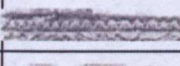
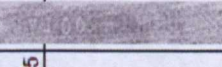
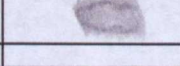
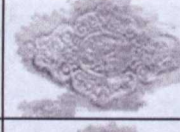

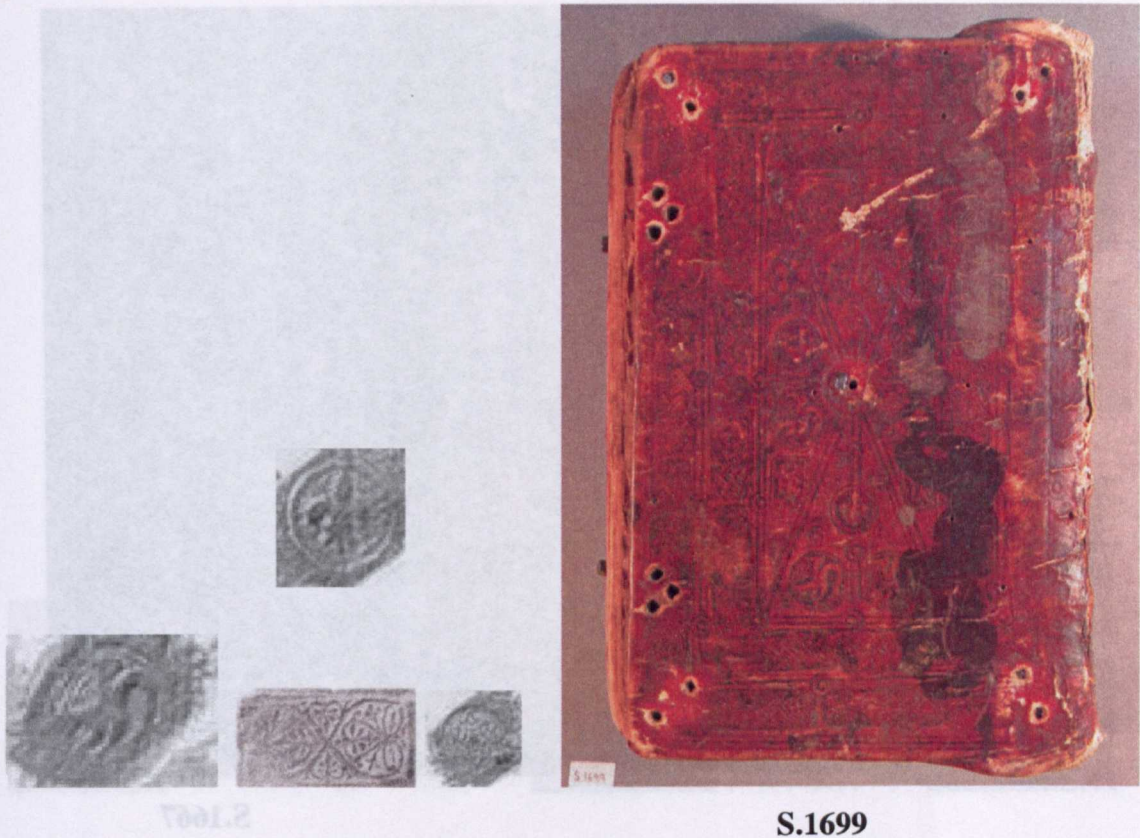
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	Tool																			
	Manuscript	Ct pa05			Hf st12	a-b-c-d LI.ev01		Hf st16		Hf st33				Rf fw05						
1	S. 1437	X	X	X	X	X		X	X	X				X			X			
2	S. 1510				X			X				X		X				X		
3	S. 1519				X							?								
4	S. 1583	X	X		X	X		X		X			X			X				
5	S. 1752										X			X					X	
6	S. 1764				X			X							X					
7	S. 1910				X			X												
8	S. 2129				X			X												

Table App.III 7b

App.III 8 - Group 26: 16th c. ?, (2)



S.1699

Manuscript Number	Manuscript Date	Content	Binding
S.166	10th c.	New Testament	Rebound
S.1699	15th c.	Theologica	First binding?

Table App.III 8a

		1	2	3	4	5	6	7	8	9	10	11	12
Tool	Manuscript												
		Ha bi01	Hf q108										
1	S. 166	x	x	x	x		x	x	x	x		x	x
2	S. 1699	x	x	x		x			x	x	x		

Table App.III 4

App.III 9 - Group 35: 16th c. ?, (2)



S.1667

Manuscript Number	Manuscript Date	Content	Binding
S.1667	16th c.	Horologion	First binding?
S.2135	16th c.	Parakletiki	First binding?

Table App.III 9a

		1	2	3	4	5	6	7
Tool	Manuscript							
		Hr.rg02	~	Hf.fw15	~	~	~	~
1	S. 1667	x		x		x	x	x
2	S. 2135	x	x	x	x	x		

Table App.III 5

App.III 10 - Group 37: Unknown date, (3)



Manuscript Number	Manuscript Date	Content	Binding
S.41	11th c.	Old Testament	Rebound
S.571	15th c.	Menologion	Not known
S.765	15th c.	Triodion and Pentekostarion	Not known

Table App.III 6

		1	2	3	4	5	6	7	8	9	10	11
Tool	Manuscript											
		Ha.et04	Ha.sq01		Ha.oa02			Ha.et11	~	Hf.rs05	~	
1	S. 41			x						x		x
2	S. 671	x		x	x	?	x	x				
3	S. 765	x	x	x	x	x	x	x	x	x	x	

Table App.III 10b

App.III 11 - Group 38: 17th c. ?, (2)



Manuscript Number	Manuscript Date	Content	Binding
S.768	16th c.	Triodion and Pentekostarion	Not known
S.2027	17th c.	Euchologion	First binding

Table App.III 11a



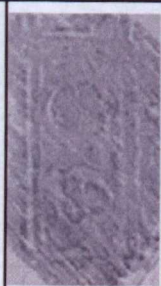


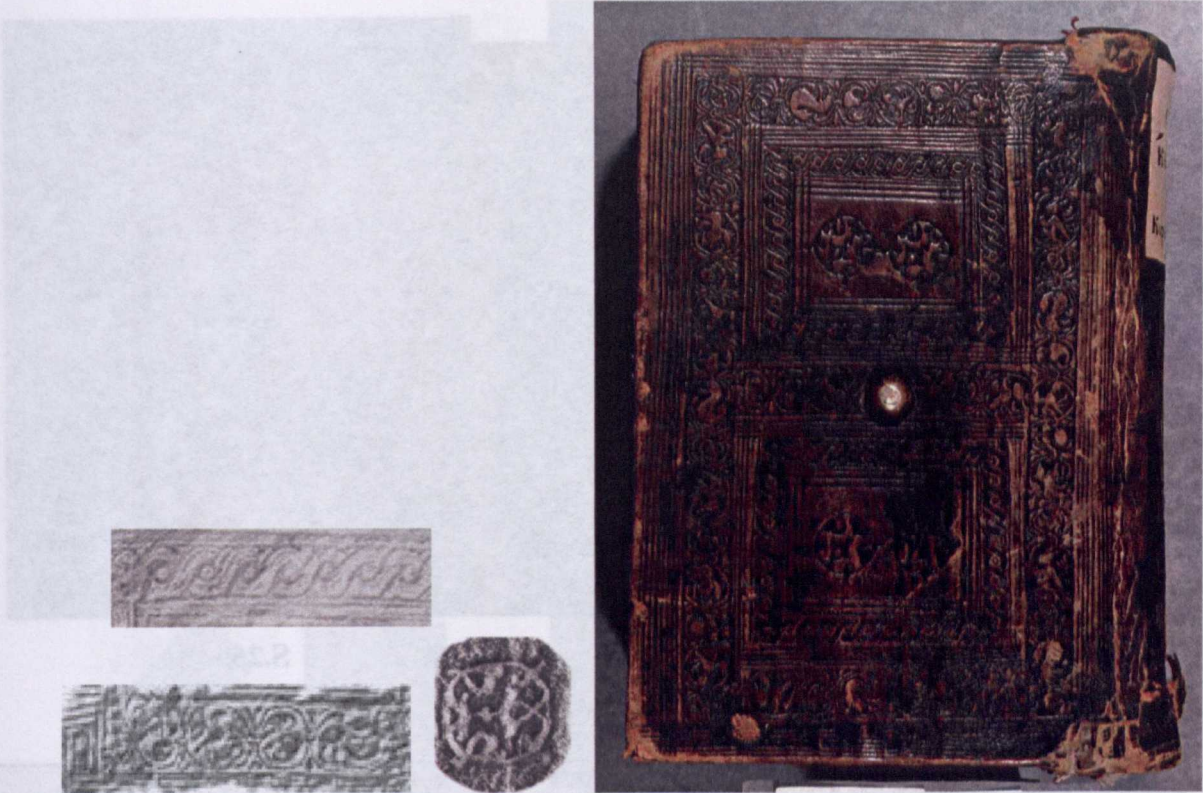
		1	2	3	4	5
	Tool					
	Manuscript	Ha.et07	Hf.rs24	Hf.fw18		↵
1	S. 0768	x	x	x	x	x
2	S. 2027	x	x	x		

Table App.III 11b

App.III 12 - Group 40: c.1565 ?, (2)



S.1166

Manuscript Number	Manuscript Date	Content	Binding
S.883	14th c.	Horologion	Rebound
S.1166	1565	Kyriakodromion	First binding

Table App.III 12

		1	2	3	4	5
Tool	Manuscript					
		Ra.ca02	Ho.ao61			
1	S. 0883	x	x			
2	S. 1166	x	x	x	x	x

Table App.III 12b

App.III 13 - Group 43: pre 1567, (6)



S.1639

S.259

Manuscript Number	Manuscript Date	Content	Binding
S.259	12th c.	New Testament	Rebound
S.550	13th c.	Menologion	Rebound
S.972	15th c.	Euchologia	Rebound
S.1342	15th c.	New Testament	Rebound
S.1639	15th c.	Sayings of the Fathers	Rebound
S.2034	15th c.	Euchologion	Rebound

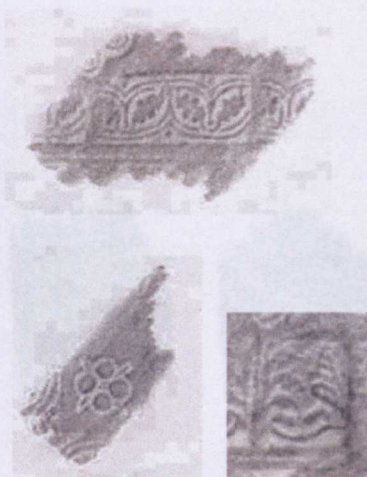
Table App.III 13a

		Tool													
		1	2	3	4	5	6	7	8	9	10	11	12	13	14
Manuscript		Hf 107	Hf rs36	Hf sl22	Hf rs32	Hf fw19	Hf q11	—	—	—	—	—	—	—	—
1 S. 0259		x	x	x	x	x								x	
2 S. 0550		x					x								
3 S. 0972		x					x	x					x		
4 S. 1342		x	x		x	x	?							x	
5 S. 1639		x	x		x		x		x					x	x
6 S. 2034				x	x					x	x	x		x	x

Table App.III 13b

App.III 14 - Group 45: c.1530, (5)

App.III 15 - Group 46: 18th c.



S.23

Manuscript Number	Manuscript Date	Content	Binding
S.23	14th c.	Old Testament	Rebound
S.325	16th c.	Sayings of the Fathers	Rebound
S.354	14th c.	Sayings of the Fathes	Rebound
S.369	11th c.	Sayings of the Fathers	Rebound
S.950	1530	Horologion	Not known

Table App.III 14a





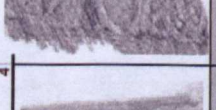

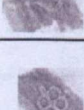









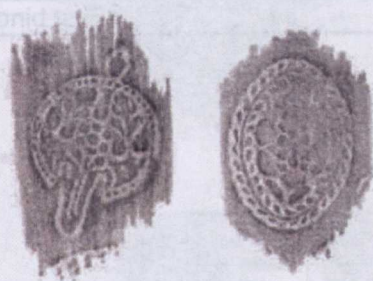
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Tool Manuscript																
		Hb.kn01	~	~	Ho.kn03	~	Hf.ts28	~	Hf.fw08	Hf.fw11	Hf.fw12	~	~	~	~	~	Unidentified
1	S. 0023				x		x		x						x		
2	S. 0025	x					x	x			x						
3	S. 0054				x		x							x			
4	S. 0369						x		x								
5	S. 0650	x					x				x						x

Table App.III 14b

App.III 15 - Group 46: 18th c., (2)



S.2074

Manuscript Number	Manuscript Date	Content	Binding
S.2073	18th c.	Music	First binding
S.2074	18th c.	Music	First binding

Table App.III 15a



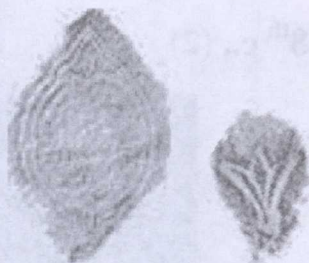
		1	2
Tool	Manuscript		
		Hf.ov01	Hf.fe13
1	S. 2073	x	x
2	S. 2074	x	x

Table App.III 15b

App.III 16 - Group 47: late 16th c.?, (2)



Manuscript Number	Manuscript Date	Content	Binding
S.1075	16th c.	Liturgy	Remboitage
S.2111	1594	Liturgy	First binding ?

Table App.III 16a

		1	2	3
Tool				
Manuscript		Unidentified	Hf.112	-
1	S. 1075		x	x
2	S. 2111	x	x	x

Table App.III 16b

App.III 17 - Group 50: 15th c.?, (2)



Manuscript Number	Manuscript Date	Content	Binding
S.279	15th c.	New Testament	First binding
S.1906	15th c.	Varia	First binding

Table App.III 17a









		1	2	3	4	5	6	7	8
Tool									
Manuscript		Ha.ra02	Hf.fw17	~	~	~	~		
1	S. 0279	x	x	x				x	
2	S. 1906	x	x		x	x	x		x

Table App.III 17b

App.III 18 - Group 51: 16th c.?, (2)



S.986

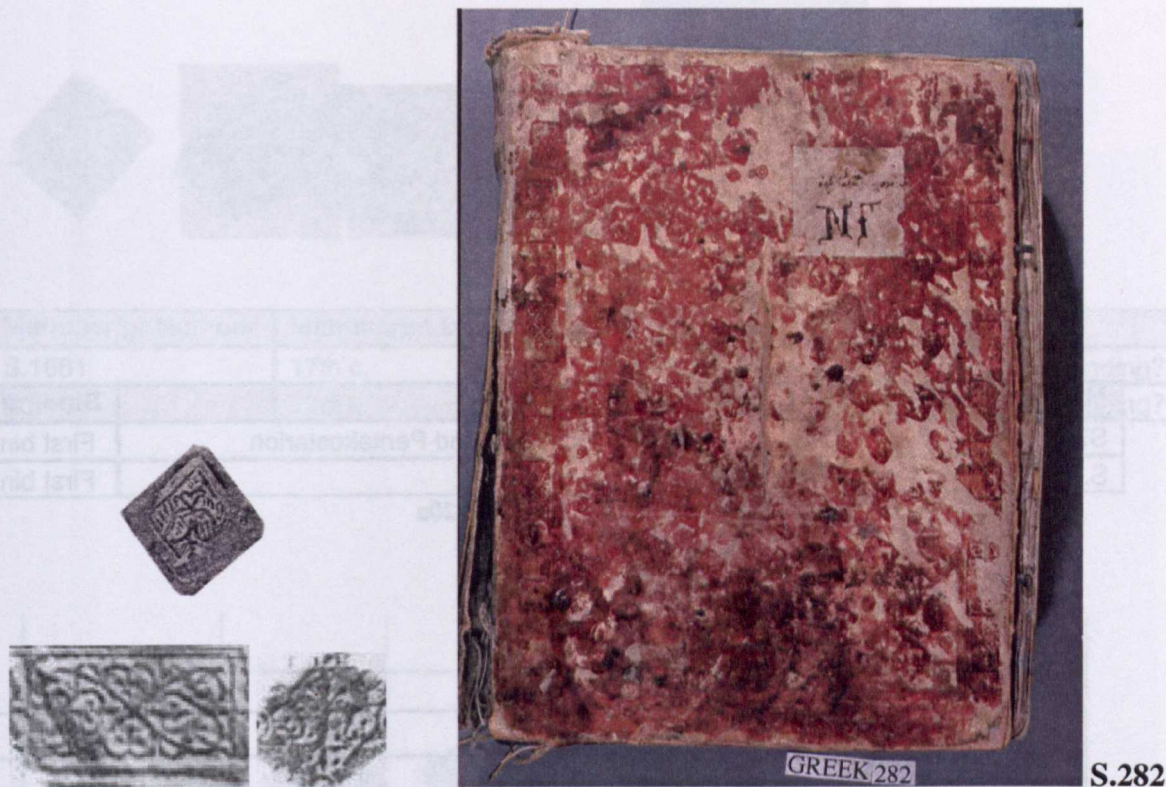
Manuscript Number	Manuscript Date	Content	Binding
S.986	15th c.	Euchologia	Not known
S.1665	16th c.	Sayings of the Fathers	Not known

Table App.III 18a

		1	2	3	4	5
Tool						
Manuscript		Hf. fw12				
1	S. 0986	x	x	x	x	x
2	S. 1665	x	x			

Table App.III 18b

App.III 19 - Group 54: 15th c.?, (3)



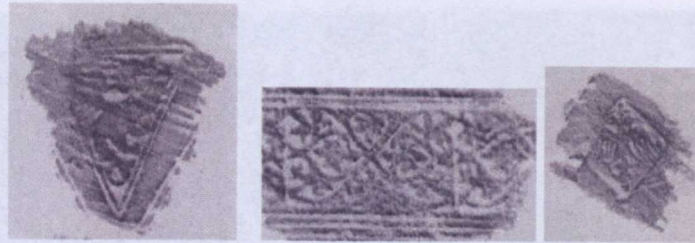
Manuscript Number	Manuscript Date	Content	Binding
S.282	11th c.	New Testament	Rebound
S.736	1028	Triodion and Pentekostarion	Rebound
S.0981	14th c.	Euchologia	Rebound

Table App.III 19a

		1	2	3	4
Tool	Manuscript				
		Hf. q10	Hf. #19	~	~
1	S. 0282	x	x	x	x
2	S. 0736	x		x	
3	S. 0981	x	x	x	x
4	Leg. Vat. gr. 1892	x	x	x	x

Table App.III 19b

App.III 20 Group 55: 16th c.?, (2)



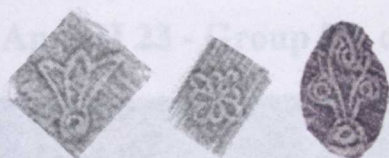
Manuscript Number	Manuscript Date	Content	Binding
S761	16th c.	Triodion and Pentekostarion	First binding
S.2047	16th c.	Typikon	First binding

Table App.III 20a

		1	2	3	4	5	6
	Tool						
	Manuscript	Hf.q113	Ha.dr08	~	~	~	
1	S. 0761	x	x	x	x		x
2	S. 2047	x				x	

Table App.III 20b

App.III 21 - Group 56: Unknown date, (2)



Manuscript Number	Manuscript Date	Content	Binding
S.1661	17th c.	Sayings of the Fathers	First binding?
S.2141	17th c.	Horologion	First binding?

Table App.III 7a

		1	2	3	4	5	6
	Tool						
	Manuscript	Hf.rs04	Hf.fl20	~			Unidentified
1	S. 1661	x	x			x	x
2	S. 2141	x	x	x	x	x	

Table App.III 8Table App.III 9b

App.III 22 - Group 58: Unknown date, (4)



S.789

S.904

Manuscript Number	Manuscript Date	Content	Binding
S.A.105	1312	New Testament	Rebound?
S.789	12th c.	Parakletiki	Rebound?
S.893	14th c.	Horologion	Rebound?
S.904	1211	Horologion	Rebound?

Table App.III 22a

<div> <div>Tool</div> <div>Manuscript</div> </div>		1
		Hfrs08
1	S.A. 0105	x
2	S. 0789	x
3	S. 0893	x
4	S. 0904	x

Table App.III 22b

App.III 23 - Group 61: Unknown date - possibly 13th c/7, (5)

(5) ,stah ongnit 2 1920-1921 10 11/1921A

App.III 23 - Group 59: c.1684-1692, (2)



S.1840

Manuscript Number	Manuscript Date	Content	Binding
S.1817	16th c.	Canons	Rebound
S.1840	17th c.	Canons	First binding

Table App.III 10Table App.III 23a




		1	2	3
Tool	Manuscript			
		Hf.rs13	Rr.rg13	
1	S. 1817	x	x	x
2	S. 1840	x	x	x

Table App.III 23b

App.III 24 - Group 60: Unknown date, (2)



S.552

Manuscript Number	Manuscript Date	Content	Binding/ MS
S.552	11th c.	Menologion	Rebound
S.626	11th c.	Menologion	Rebound

Table App.III 24a


		1
Tool		
Manuscript		Hf.rs17
S. 0552		x
S. 0626		x

Table App.III 24b

App.III 25 - Group 61: Unknown date – possibly 13th c. ?, (5)



Manuscript Number	Manuscript Date	Content	Binding
S.A.72	897	New Testament	Rebound
S.A.96	13th c.	Lectionary	Not known
S.A.360	1188	Sayings of the Fathers	Rebound
S.A.437	13th c.	Sayings of the Fathers	Not known
S.A.571	13th c.	Lives of Saints	Not known

Table App.III 25a








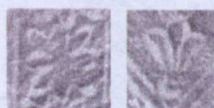
		1	2	3	4	5	6	7
Tool	Manuscript							
		Hf rs 18	Ho kn05			Hg cr05	?	
1	S.A. 0072	x	x	x	x	x		x
2	S.A. 0096	x	x	x	x	x	x	x
3	S.A. 0360	x	x	x	x			x
4	S.A. 0437	x	x					
5	S.A. 0571	x	x					

Table App.III 25b

App.III 26 - Group 62: c.1644, (2)



S.Syr.189



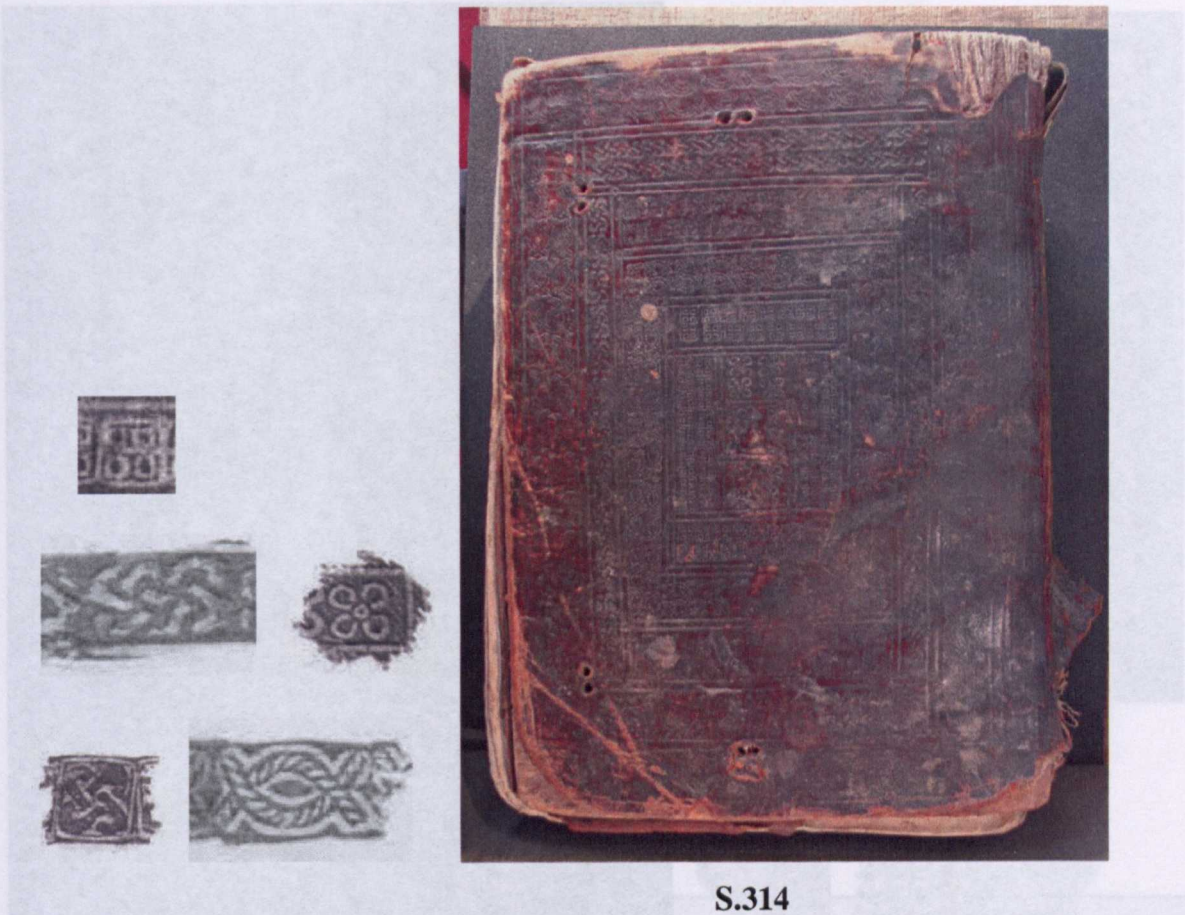
Manuscript Number	Manuscript Date	Content	Binding
S.A.207	1644	Horologion & Prayers	First binding
S.Syr.189	13th c.	Liturgy	Rebound

Table App.III 26a

		1	2	3
	Tool			
	Manuscript			
		Hf.rs27		
1	S.A. 0207	x		
2	S. Syr 0189	x		

Table App.III 26b

App.III 27 - Group 63: Unknown date, (2)



Manuscript Number	Manuscript Date	Content	Binding
S.A.134	17th c.	Lectionary	First binding?
S.A.314	1484	Discourses & Mimars	Rebound

Table App.III 27a

		1	2	3	4	5	6	7	8	9
Tool										
Manuscript		Hf.rs31	~	~			Ho.kn08		~	
S.A. 0134		x	x	x	x	x	x		x	x
S.A. 0314		x			x	x	x	x		

ble App.III 27b

Ta

App.III 28 - Group 64: 15th c. ?, (2)



S.2124

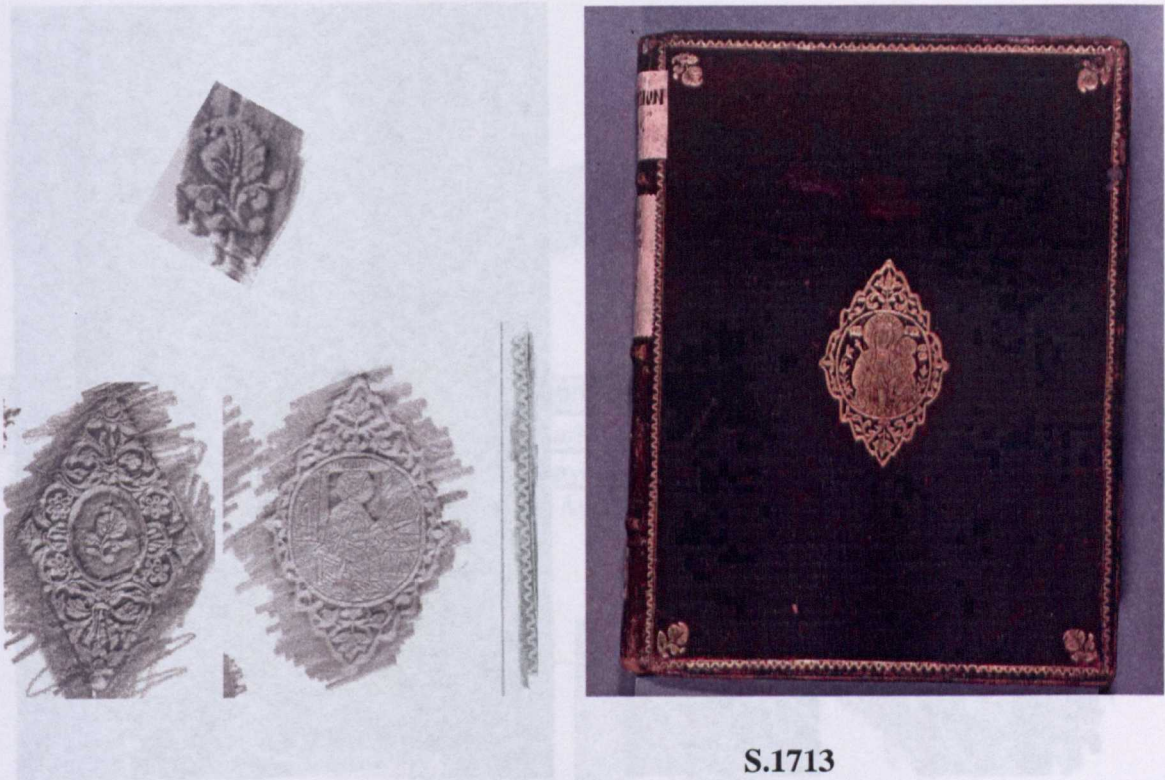
Manuscript Number	Manuscript Date	Content	Binding
S.425	15th c.	Ascetica	First binding
S.2124	15th c.	Varia	First binding?

Table App.III 28a

		1	2	3	4	5	6	7	8	9
Tool										
Manuscript		Hf.rs34	~	~	~		Hf.q114	~		
1	S. 0425	x			x	x	x	x		x
2	S. 2124	x	x	x			x		x	x

Table App.III 28b

App.III 29 - Group 65: c.1725 ?, (4)



S.1713

Manuscript Number	Manuscript Date	Content	Binding
S.1700	18th c.	Varia	First binding
S.1713	18th c.	Sayings of the Fathers	First binding
S.1883	15th c.	1883	Rebound
S.2162	18th c.	Varia	First binding

Table App.III 29a

Tool		1	2	3	4	5	6
Manuscript		Rf.fw04				Hf.sl14	
1	S. 1700	x	x			x	
2	S. 1713			x	x	x	x
3	S. 1883		x			x	x
4	S. 2162					x	x

Table App.III 29b

App.III 30 - Group 66: 18th c.?, (2)



S.1209

Manuscript Number	Manuscript Date	Content	Binding
S.687	17th c.	Anthologion and services	Not known
S.1209	18th c.	Varia	First binding

Table App.III 30a





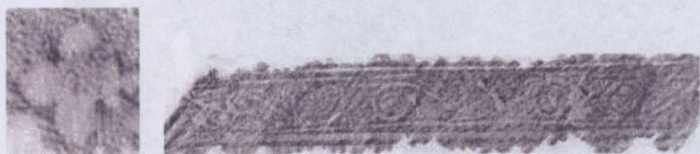
		1	2	3	4
	<div>Tool</div> <div>Manuscript</div>				
		┐	Lt.ag02	Lf.fw01	┐
1	S. 0687		x	x	x
2	S. 1209	x	x	x	

Table App.III 30b

App.III 31 - Group 70: Unknown date, (2)



Manuscript Number	Manuscript Date	Content	Binding
S.1385	18th c.	Varia	First binding
S.1394	18th c.	Saying of the Fathers	First binding

Table App.III 31a

		1	2
Tool	Manuscript		
		Rf.fw17	Hg.cr03
1	S. 1385	x	x
2	S. 1394	x	x

Table App.III 31b

App.III 32 - Group 73:Possibly 13th c.?, (2)



S.A.178

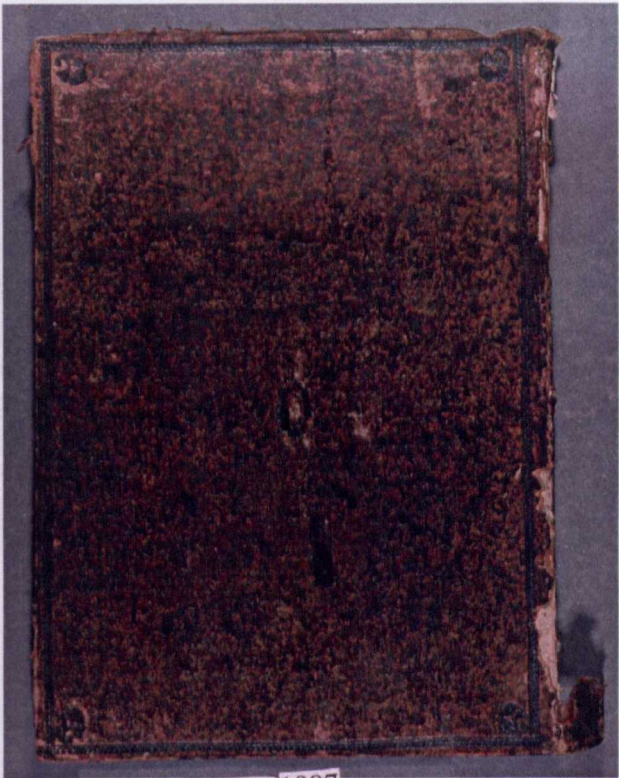
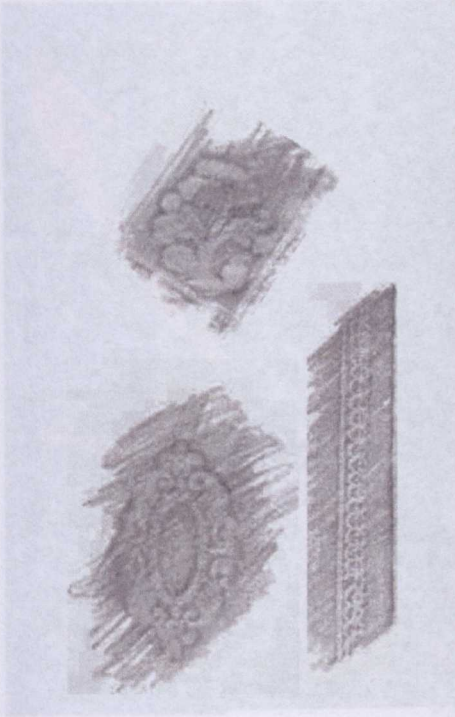
Manuscript Number	Manuscript Date	Content	Binding
S.A.178	13th c.	Lectionary	Not known
S.A.392	13th c.	Canons	Rebound

Table App.III 32a

		1	2	3
	Tool			
	Manuscript	Hf.w77	~	Hf.rs108
1	S.A. 0178	x	x	x
2	S.A. 0392	x	x	x

Table App.III 32b

App.III 33 - Group 74: 18th c., (2)



S.1907

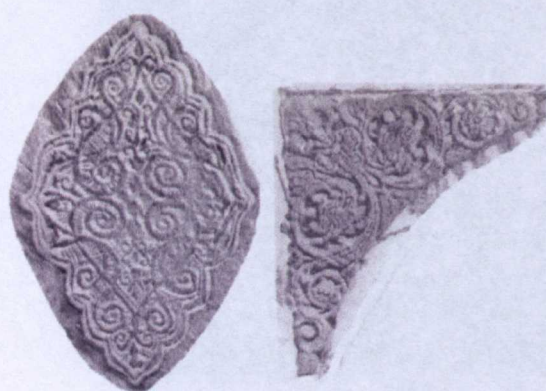
Manuscript Number	Manuscript Date	Content	Binding
S.1777	18th c.	Liturgy	First binding
S.1907	17th c.	Commentary on the Bible	Not known

Table App.III 33a

		1	2	3
	Tool			
	Manuscript	Co.ao15	Ro.ob38	Hf.st149
1	S. 1777	x	x	
2	S. 1907	x	x	x

Table App.III 33b

App.III 34 - Group 75: 18th c., (3)



S.1860

Manuscript Number	Manuscript Date	Content	Binding
S.1712	18th c.	Sayings of the Fathers	First binding
S.1860	18th c.	Sayings of the Fathers	First binding
S.1892	18th c.	Varia	First binding

Table App.III 34a

		1	2
	Tool		
	Manuscript	Co. ao08	Lf fw04
1	S.1712	x	x
2	S.1860	x	x
3	S.1892	x	x

Table App.III 34b

APPENDIX IV

Technical specifications and the survey database

App.IV 1 Technical specifications and procedures for the scanning of rubbings

Several flatbed A4 scanners¹ were compared for scanning a sample of rubbings at 75, 150, 300 and 600 dots per inch (dpi). and the best results were obtained by the MicroTek ArtixScan DI 2010 flatbed scanner. A resolution of 300 dpi at 8bit grey-scale was found to be sufficient for the level of detail required for the detailed examination of the rubbings, while at the same time producing image files of a manageable size, which was an important factor when the overall size of the collection of the scanned rubbings was taken into consideration.

The paper sheets were scanned one by one and each of the individual rubbings, which might contain more than one tool impression recorded on a sheet, was saved as a separate uncompressed TIFF file which was then converted to a JPEG2000² and copied to lower quality JPEG file. Along with the conversion, a set of metadata was created to accompany each file for archival reasons. The widely used Dublin Core metadata set was adopted, along with Dig35 (Digital Imaging Group) which is recommended for adding technical specification metadata extracted from a scanning process. A utility built in Visual Basic was used for facilitating the metadata descriptions and their input into XML format (XML is discussed below)

The digital files of the rubbings were saved in folders following a normal directory structure, at the top of which are the six divisions (folders) of the library's manuscript collections as they appear in the library catalogues: Arabica, Ethiopica,

¹ MicroTek ArtixScan DI 2010, Hewlett Packard psc 2410 photosmart, Epson 1680 and Epson 2480.

² JPEG2000 is a new image file format which offers lossless compression, maintaining the quality of an uncompressed file but reduced in size.

Georgian, Greek, Slavonic and Syriac, within which were folders with the manuscript numbers given in their shelfmarks. The rubbing files for each manuscript were stored in their relevant folders. Once the scanning of all the rubbings was completed, the individual tools within these rubbings had to be identified. Images of these were then cropped and copied from the original scanned JPEG2000 files through another utility in order to speed up the process. The new cropped files were saved as JPEG images in the same folder arrangement as described above.

App.IV 2 The survey database of rubbings and manuscripts

Two types of database models were considered, relational and XML:

Relational model

In relational database models, data is stored in tables of rows and columns. Each column should contain a unique piece of information within the table that cannot be divided further, and it is required that no two records (rows) within the table have identical information. Each table usually contains one type of information creating a group of data that we would like to have described, For example, a description required for every rubbing is the type of tool it comes from (small hand tool, centre piece, roll, etc). The type of tool, therefore, constitutes an individual table.

Many tables can exist within a database and can be linked through relationships, based on the identifiers within each table. These are called primary keys, and are numerical references, responsible for making every record in a table unique.

Once data is stored in tables, the way to retrieve it is through SQL statements (Structured Query Language), which are a way to return records as a result of simple or complex queries set by the user. SQL is a powerful tool which allows gathering information from the database as they could be imposed on single or on multiple tables of the database simultaneously. Most relational databases can also make use of tools for the statistical analysis of data (Velios, A. & Pickwood, N. 2005), a feature which is of particular interest for the study of numerical inputs.

XML

XML stands for **EX**tensible **M**arkup **L**anguage. It is a language that was designed to describe, store and send data and was developed mainly for the web, but it has found several applications outside it. One of its advantages is that data in XML documents can be created by simple text editors. The arrangement of the various pieces of data in a file (the data structure) follows specific rules which can be specifically described by a different XML document written with specific rules described as *XML schema* and therefore can be written in any platform

XML is based on a hierarchical arrangement of data. This is perhaps the most significant feature of XML, in addition to its being an archival and universally readable language since it is based on simple text.

Although a large part of the categories that were to form the database had a hierarchical arrangement (categories and sub-categories), it was observed that in the hierarchical structure most elements did not exceed more than three levels of sub-division. This short distribution of hierarchy could easily be maintained within a relational database. The need to built composite queries for which there are more tools in SQL than in XML and, on many occasions, perform statistical calculations through these for which relational databases are again more appropriate, was finally a determining factor for this selection. The relational database model was therefore chosen as the most suitable for this survey database.

Appended below is the design of the Survey Database Form, with definitions of the terms used. The form is divided into two sections, The Manuscript Form and the Rubbings Form.

App.IV 3 - Manuscript Form

Manuscript Description

MS Number : The manuscript shelfmark as used in the library.

MS Date : The date of the manuscript. A specific date was given if known, otherwise the century in which it was written. This information was extracted from available secondary sources such as the published catalogues of Gardhausen (1885), Kamil (1970) and Clark (1952), the works of Weitzmann & Galavaris (1990), Patrinelis (1961), Spatharakis (1981), Digbasani (1992) and the notes of Sharpe³.

MS Origin : The place where the manuscript was written. As above, secondary sources occasionally provide this information, or the information was based on palaeographical studies or scribal notes and colophons in the manuscripts. Information on the provenance or earlier owners was included in the *Comments* box, whenever it was available.

Content : The subject category of the content of the manuscript.
eg. Old Testament, New Testament, Sayings of the Fathers, Lives of Saints, Historica, Services, etc
This categorization was derived from Kamil's bibliographical descriptions as they were also used in the Manuscripts Survey Project forms.

Comments : Comments of codicological significance of the manuscript. Many

³ The notes of John Sharpe are from the unpublished report that he submitted to the Saint Catherine Foundation in 1999 following his examinations of the bindings of the library and where made available to me through N.Pickwood's list of comments for the Manuscripts Survey Project database.

comments made by Gardhausen, Kamil, Clark, Sharpe and fewer by Weitzmann, Patrinelis, Spatharakis and Digbasani were added here. Translations of the scribal notes found in the manuscripts were also included in this section.

E.g. “written by the monk Germanus in Egypt in 1719”

Tool Name : A list of all the tools identified on the binding of a manuscript, imported as a link from the rubbings table. (see *Tool Name* section under the Rubbings Form).

Rubbing Number : A table with a list of the rubbing numbers (Identification Numbers) that were recorded from the binding of each manuscript. This section was useful for connecting each manuscript to its rubbings in the Rubbings Form.

Total No of Tools : The total number of individual tools that it was possible to identify on each manuscript binding. This number was often different from the number of entries in the “rubbing number” list described above. This was due both to the fact that the “rubbing numbers” include duplicate rubbings from the same tool, and to the fact that there are many tools that it was not possible to record because of the bad quality of the impression, yet which could be identified from photographs of the binding or by direct observation. I have accepted the suggestions made in the Manuscripts Survey forms, apart from those cases when I had contradictory evidence or when there were insufficient records.

Manuscript Dimensions: The maximum dimensions for the height, width and thickness of the manuscript. These measurements were taken during the Condition Assessment using a measuring box and are recorded in millimetres.

Binding

Binding Date : There were a few isolated cases in which a binding could be accurately dated through a binder's note or through its relation with the textblock, where that was dated on the basis of palaeographical criteria. It was however more likely that questions regarding the date of the binding of many of the books examined could be answered as a result of this thesis by relating un-dated bindings to dated ones. In the absence of reliable dates an assessment was made, through a drop down menu, about whether the binding is *contemporary* with the manuscript, *later* or a *remboîtage*⁴, judging from the manuscript date that was recorded in a previous section and from obvious evidence of rebinding. A *Not Known* option was also available.

Binding Description : This entry allowed for a very brief and general indication of the style of binding, based on its structure. It aimed at identifying at a very basic level, Greek-style, Western and Islamic binding structures, and to indicate hybrid structures.

The main terms employed here are:

- *Greek*. This describes structures characterised by certain Greek binding features: a smooth, rounded spine, unsupported sewing, textblock that is cut flush with the boards, endbands that project over the edges of the boards and are sewn to them, occasionally grooved board edges and the characteristic interlaced leather straps and fore-edge pin fastenings.
- *Western*. This describes structures that carry features of the Western European tradition, such as supported sewing of the textblock, the attachment of the boards by means of the sewing supports and/or the

⁴ *Remboîtage* is the term used when a textblock is bound in a binding taken from another book.

endband cores. A feature that starts to appear in Western European structures of the late medieval period, and becomes characteristic of many Western style bindings thereafter is the squares which are created by the boards projecting beyond the edge of the textblock.,

- *Islamic* for structures that carry features of an Islamic bookbinding tradition : unsupported link stitch sewing, a flat spine, a foreedge flap, “Islamic” chevron endbands woven on warps.
- *Greek-style + Western hybrid, Greek-style + Islamic hybrid and Western + Islamic hybrid* are terms used to describe bindings which carry features from two traditions simultaneously, indicating therefore an overlap of techniques.

This categorization, although very basic and not intended to identify detailed differences between bindings, was very useful in separating the Greek-style bindings, which are in the majority in the library at St. Catherine’s, from those that have come from a different tradition either as an import or as a development in local binding practice.

Binding Origin : The location where the current binding was made or, if applicable, where the rebinding (repair) of the book carrying the current tooled decoration took place. This is information that could be provided solely on the basis of binder’s notes, and by comparison to bindings of known origin, in those examples where this was known.

Comments on binding : In this field additional comments regarding the binding

could be made or extracted from literature⁵, as well as comments on location, distinctive details and binders' notes.

Decorative Pattern

Left Board / Right Board⁶ / Spine:

In this section the layout of the straight-line tools, the rolls, the centre and corner pieces and occasionally the small hand tools were described by referring them to a categorised checklist of the basic patterns observed throughout the entire collection of the decorated bindings of the library. The checklist contains drawings of codified patterns made specifically for this purpose but based on photographs of the bindings and on the drawings made for the manuscript survey forms. These were arranged in 25 main numbered groups (1-25) each with 3 to 7 varieties (a-g.).

In these drawings the straight-lines or rolls were represented by a thin black line, the corner pieces by small hatched quadrants, the centre pieces by a hatched oval and the small tools by a small circle.

In most cases each pattern was characterised by the straight-lines only, while the arrangement of the small hand tools and the rolls was omitted in order to avoid having multiple variations of a very similar pattern. Where there were no straight lines, patterns formed by the rolls or other small tools were recorded and the centre and corner pieces were always taken into account in the decorative pattern

⁵ Comments by Sharpe, Clarke and Pickwood are included.

⁶ "Left board" and "right board" were used to describe each of the boards instead of upper / lower or front / back, which are more traditional terms but not consistent for this collection since Arabic and Syriac texts which start at the right end of the textblock would not have the same upper or front board as Greek or Cyrillic texts. Therefore left and right board as seen with the book opened as for reading, were preferred terms. Also see Pickwood (2004).

Drawing : The drawing was scanned from the manuscript survey forms for each of the decorated bindings.

Technique of decoration: The techniques used to create the tooled decoration were described by means of 12 definitions:

- Blind tooling
- Gold tooling
- Silver tooling
- Painted decoration
- Knife cut
- Paper inlays/ onlays
- Blind tooling & gold tooling
- Blind tooling & silver tooling
- Blind, gold tooling & silver tooling
- Blind tooling & knife cut
- Blind tooling & paper inlays/ onlays
- Blind tooling & ink decoration
- Gold tooling & inlays/ onlays
- Gold tooling & silver tooling

The distinction between the tools being used cold or heated has not been made on account of the difficulty in distinguishing between the two techniques. A heated tool should produce a darker and crisper impression on the surface of the leather, but this depends on the quality of the tool and how deeply the tool was impressed into the leather, the application of moisture to the leather prior to tooling, the temperature of the tool, the different qualities of the leather and the force with which a tool was applied. The current condition of the leather covers would also affect the confidence with which any distinction between the techniques could be made, particularly where the bindings have been heavily used over the

centuries with a consequent loss of quality in many of the tooled impressions.

Straight Lines: The pattern of the decorations was made up of single or multiple parallel lines:

- Single
- 2-line
- 3-line
- 4-line
- 5-line
- 6-line
- Unidentified
- None

Note: Straight lines tooled on bindings are traditionally called “fillets”. This term was not used here to avoid confusion with the same term which is used for the finishing tool (roll with a plain line edge) that produces straight lines, but is not the only tool that can be used for this purpose. It should not, therefore, be used to define a straight line which may have been made also by a creaser, pallet or simple pointed tool such as a blunt knife or a bone folder. The term “fillet” was used in this research only for the finishing tool of that name.

Straight Line Joints: The way in which the straight lines are joined at corners, or other joining points. It has been noticed that binders or finishers occasionally have repetitive habits which may help to confirm that the same binder carried out a number of bindings in which the same finishing tools have already been identified. The way they

use straight lines is one of these. The following options were given:

- Butting
- Crossing
- Gap
- Inconsistent
- Undefined
- None

Multi-line tool : This identifies instances in which it was clearly evident that multiple straight lines were made by a single tool that was designed to create multiple, parallel lines in a single use of the tool, as opposed to repeated single lines. Multi-line tools might be fillets, creasers or pallets, though in most cases it is difficult to distinguish between them based on the impression they leave on a leather cover. Nevertheless, the distinction between multi and single-line tools is often clearly revealed by tooling errors, such as doubled impressions or skewing of straight lines.

Re-examination : Whenever there is insufficient information available to make a complete record of the manuscript or of the binding, or when confirmation of the entries in certain fields is required, the record was flagged for re-examination.

App.IV 4 - RUBBINGS FORM

Photograph: A thumbnail image accompanies each rubbing record.

Tool Name: By comparing rubbings in a process that is discussed below, a number of impressions may be identified as having been made by the same tool. These tools were then named and categorised according to a system based on the type of tool and its *Theme Category* and *Sub Theme*. This name became their main identifier.

An initial capital letter was given for the type of tool:

Hand Tool H	Centre Piece C	Corner Piece L	Panel P	Roll R	Multi-line Tool M
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Another initial was given for the theme category and a further one for the sub-theme, according to the classification codes in the table below, followed by a conventional accession number of identified tools under this classification.

E.g. *Ha.li01* is a hand tool with an “Animals / lion” theme and it is the first tool attributed within this category.

Once the tools had been identified, classified and arranged in sequence in the Corpus of finishing tools, this Tool Name was abolished and a simple accession number was given to each tool, to facilitate the reader in retrieving the rubbings and so as to simplify their arrangement. However, during the identification process this naming system was considered crucial.

Classification codes for the theme and sub-themes categories of finishing tools

Theological & Human Figure
Angel
Annunciation
Crucifixion
Evangelist
Jesus
Resurrection
Saints
Virgin and Child
Portrait
Profile
Other Human Figure
Animals
Bird
Dragon
Eagle - one head
Eagle - two headed
Lion
Backwards facing quadrupeds
Single quadrupeds

Vegetation
Fleur-de-lis
Floral curving branches
Rosettes
Flowers and leaves
Stem
Quadrilob
Other Vegetation
Ornamental
Interlace
Knotwork
Abstract ornaments
Ornamental bands
Miscellaneous
Inscription
Cross
Lines, strokes and dots

Rubbing Number: The accession number, unique to each rubbing, was allocated during the data entry process.

MS Number: This is the monastery's manuscript shelfmark as used in the Manuscript Form.

Duplicate Rubbing: Many tool impressions were recorded during the Condition Assessment with multiple rubbings, as well as different impressions of the same tool from the same binding, in an attempt to record the best possible impression of the tool. Although many of those of less quality were rejected during a first stage of selection, there were still several rubbings which were left to be decided at a later stage. A rubbing was described as *duplicate*, and

was therefore made redundant, when it was confirmed that a better rubbing of this impression from the same binding was available.

Poor Rubbing: A rubbing of such poor quality that it could not provide any useful information about the tool impression. Where a better rubbing existed, and the “duplicate rubbing” was selected, this field would automatically be made redundant. It would otherwise be necessary to re-examine the binding and obtain either a new rubbing or a raking-light photograph for this impression.

Rubbing Description

Type of Tool: The type of the finishing tool that left the impression was recorded, according to the following options:

- Small Hand-Tool
- Centre Piece
- Corner Piece
- Roll
- Panel
- Fillet / Creaser / Pallet

Engraving of Tool: A distinction was made between impressions made from *intaglio* or *relief* tools.

An *intaglio* engraved tool leaves the engraved motif standing out from the impression in the surface of the leather.

A *relief* tool on the other hand, impresses the motif into the leather and leaves the background of the tool standing out.

Shape: The shape of the outline of the tool impression including any borders, selected from the following list:

- Square
- Rectangular

Position on Cover:

- Circular
- Triangular
- Oval
- Rhombus
- Tear drop
- Parallelogram
- Mandorla
- Arch
- Multifaceted
- Cross
- Complex
- Other
- Unidentified

Tool Border Type:

The number of borders of the tool, if any.

- Relief



without border

- Intaglio

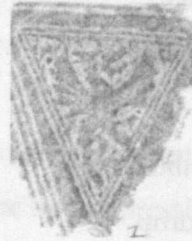


without border

- Single



- Double



Theme Category and Sub Theme:

See under *Tool Name* of this section.

Impression Quality: A judgement of the quality of the rubbing based on a four-grade classification: Poor, Average, Good and Excellent. Some rubbings were occasionally not representative of the quality of the impression. This was particularly the case with many gold tooled impressions, where a deep rubbing could not have been taken for fear of damaging the gold leaf or shell gold. Where the impression showed more clearly in the photographs, a separate comment would be made in the *Comment* box.

Intention of tool use: In this section the positioning and the use of the tool within the decorative pattern was given through five options:

- Free standing tool
- As Centre piece
- As Corner piece
- Forming border/ frame
- Forming built-up design

In addition to the information recorded under *Type of Tool*, distinctive habits or unusual ways in which tools were used in a pattern were looked for, such as centre pieces being used as free tools.

Position on Cover:

- Left board cover
- Right board cover
- Both board covers
- Spine
- Foreedge flap
- Board edges
- Turn-ins
- Board covers & Spine
- Board covers & Foreedge flap
- Board covers & Board edges
- Board covers & Turn-ins
- Board edge below endband

Dimensions :

Measurements were not used for the comparison of rubbings for the purposes of this research for reasons discussed below, but it was still important to have records of the actual size of each tool recorded, to provide a reference for those who would like to compare these rubbings with other material.

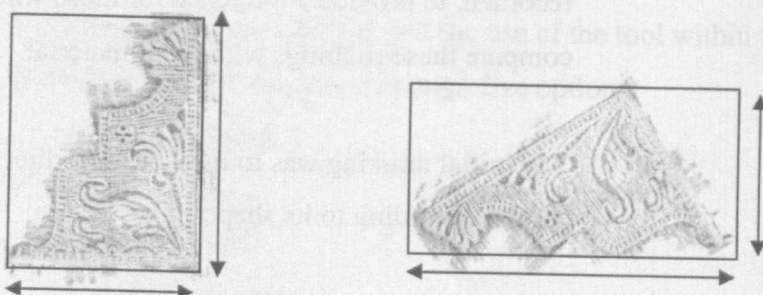
My initial thinking was to measure two dimensions for each tool chosen according to its shape.

The dimension types were:

- Length / a
- Width / b
- Max Diagonal / $\Delta 1$
- Min Diagonal / $\Delta 2$
- Max Diameter / $\delta 1$

- Min Diameter /82

These dimension types accommodated most symmetrical and regular geometric shapes, but it soon became clear during the data input process that this method could not accommodate all the variations of irregular and non-symmetrical shapes. In these cases, maximum and minimum dimensions and even a consistent orientation were difficult if not impossible to establish in a reliable and repeatable manner. Although maximum and minimum dimensions must by definition exist for all shapes (except perfect circles), height and width measurements will depend on the orientation of the tool, making it possible for different examiners to choose different orientations for their measurements (illustration below). At the same time it is occasionally difficult to determine the maximum and minimum dimensions for irregularly shaped designs.



The same corner piece measured in two different ways

Length = 57mm

Width = 42mm

Length = 72mm (longest
dimension of tool)

Width = 38mm

An alternative solution would be to take a specific measurement, as close as possible to the largest dimension of the tool and use two

marks on the rubbing to indicate between which points the measurement was taken. Although this option was considered workable and would certainly be very useful for anyone wishing to use these rubbings for comparison, it presented two difficulties. The first is that for every rubbing that was reproduced, two versions would be required, an unmarked copy and a marked copy with the two measurement points, which would double the already large space required to reproduce the rubbings. The second reason was the difficulty of selecting exact measurement points, particularly in the less clear rubbings, and the time that would be required to mark each rubbing with points, measure, record and make a marked digital copy for every identified tool. It was finally decided that the size and the proportions of an impression could be adequately recorded by embedding one ruler in scale next to every rubbing, while ensuring that any possible paper or digital reproductions of the rubbings are made undistorted to accurate size. This would allow other people to use these reproductions and compare them with their own rubbings, without reference to any scale.

Comments : As in the Manuscripts Form, comments considered important for a tool or a specific impression but which were not included in the headings given above.

Recorded Instances: A reference to bindings from collections other than St Catherine's library that have been tooled with the same tools.

Re-examination Required: As in the Manuscript Form, the possibility of flagging a record was given to draw attention to the fact that certain fields for this rubbing could not be completed or that there were areas which needed confirmation or further investigation.

App.IV 5 - The process of superimposing rubbings

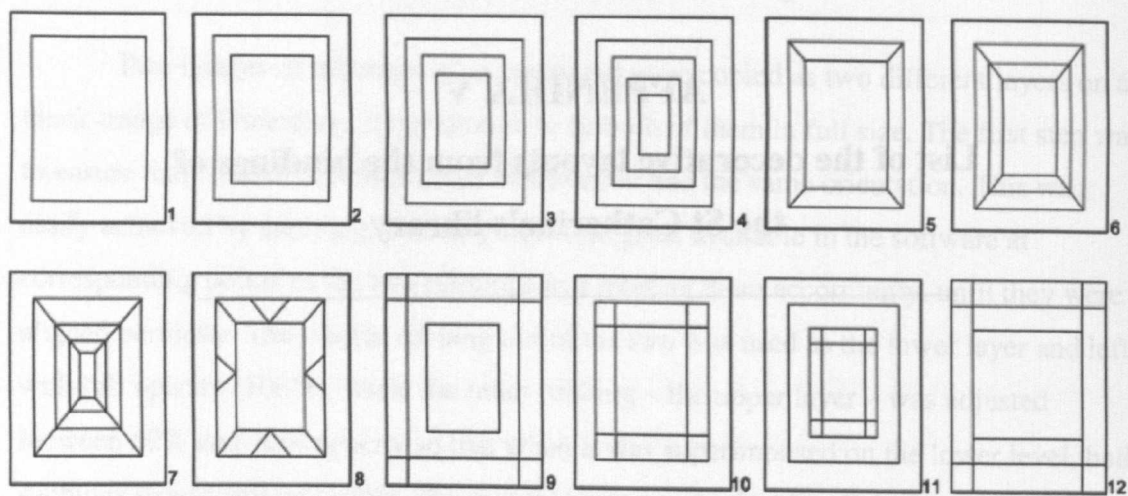
Two images of rubbings to be compared were copied as two different layers on a blank image of Photoshop, large enough to fit both of them in full size. The first step was to ensure that the two rubbings under observation had the same orientation. This was easily achieved by applying the line guides and grids available in the software at corresponding points of the two rubbings and rotating them accordingly, until they were aligned perfectly. The clearer rubbing out of the two was used as the lower layer and left with full opacity (100%), while the other rubbing – the upper layer – was adjusted between 50% and 70% opacity so that when it was superimposed on the lower level, both rubbings would still be visible. The two rubbings would then be aligned accurately one on top of the other. The opacity of the upper layer was then altered slowly from 0% to 100% and back to 0% in repetitive motions, to reveal if the outline of the impressions, the details in a curve, a particular point or the inclination of a specific line were the same in both rubbings.

APPENDIX V

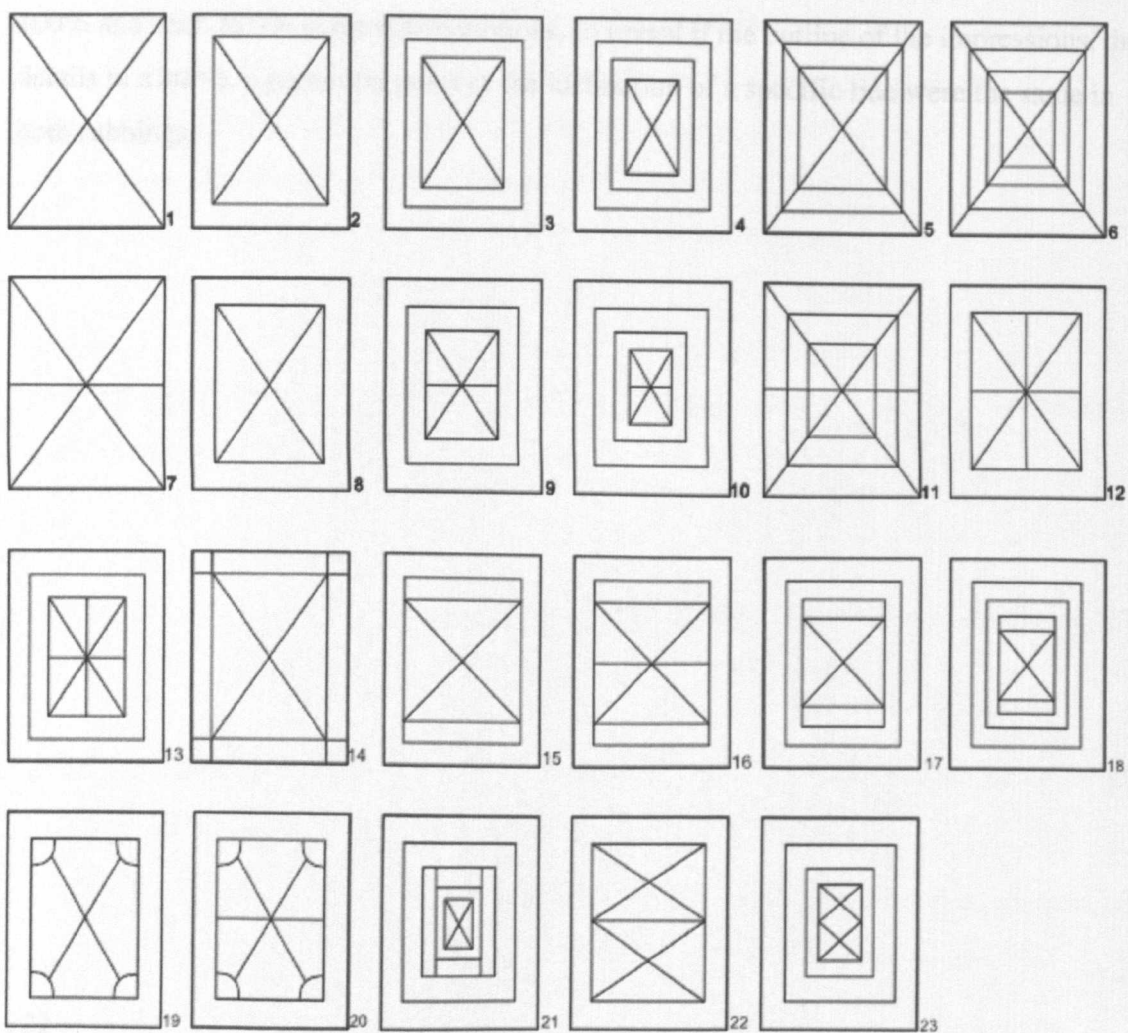
List of the decorative layouts from the bindings of the St Catherine's library

Cover Layouts

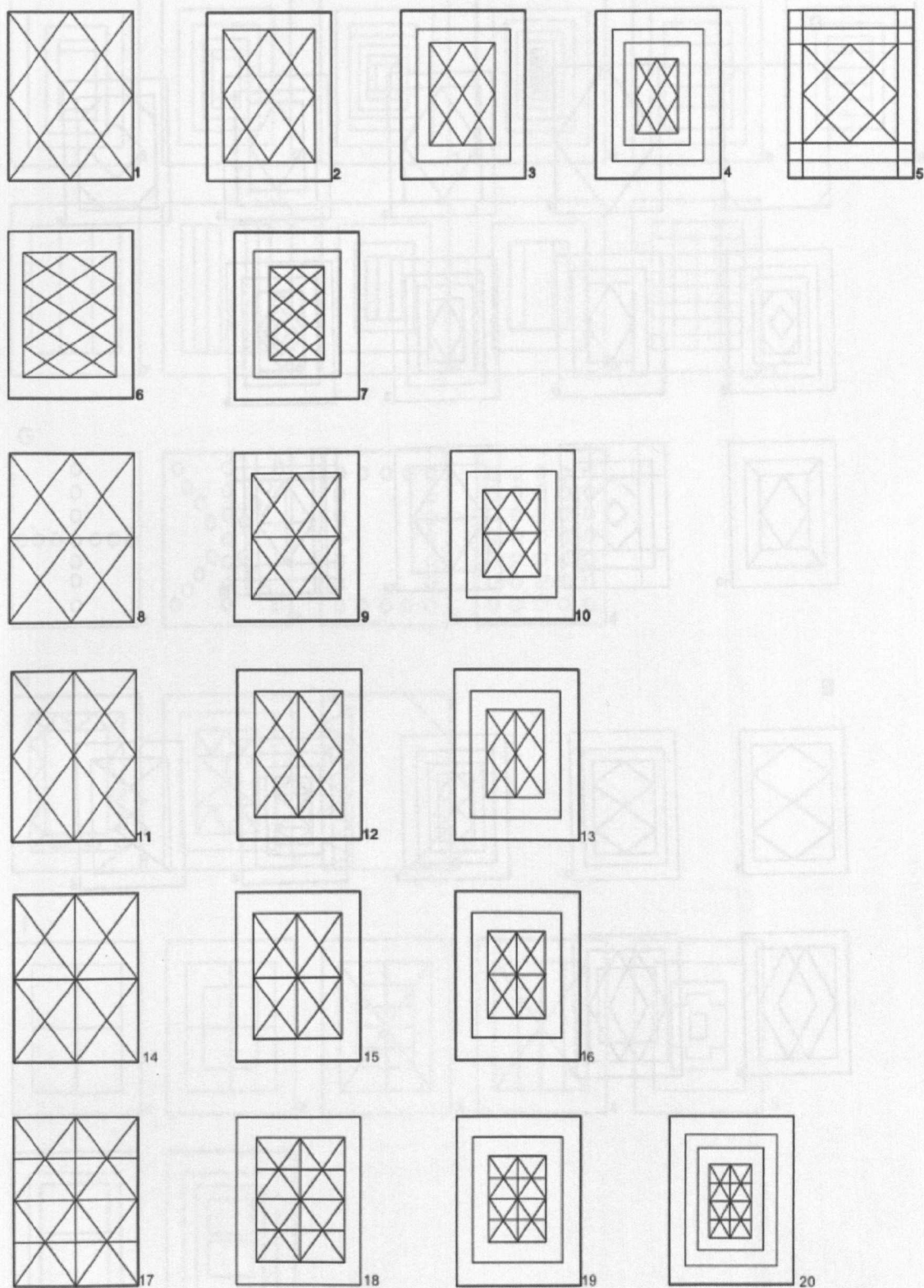
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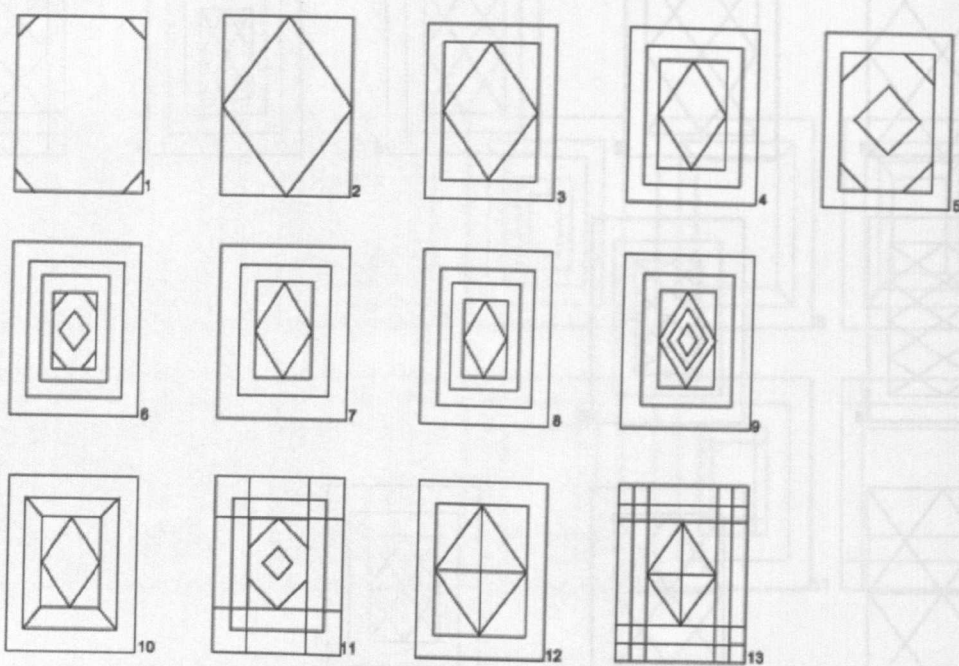
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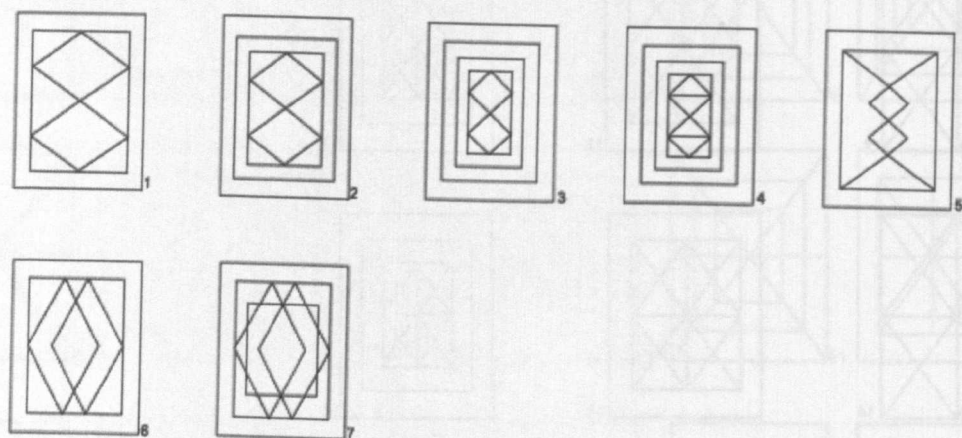
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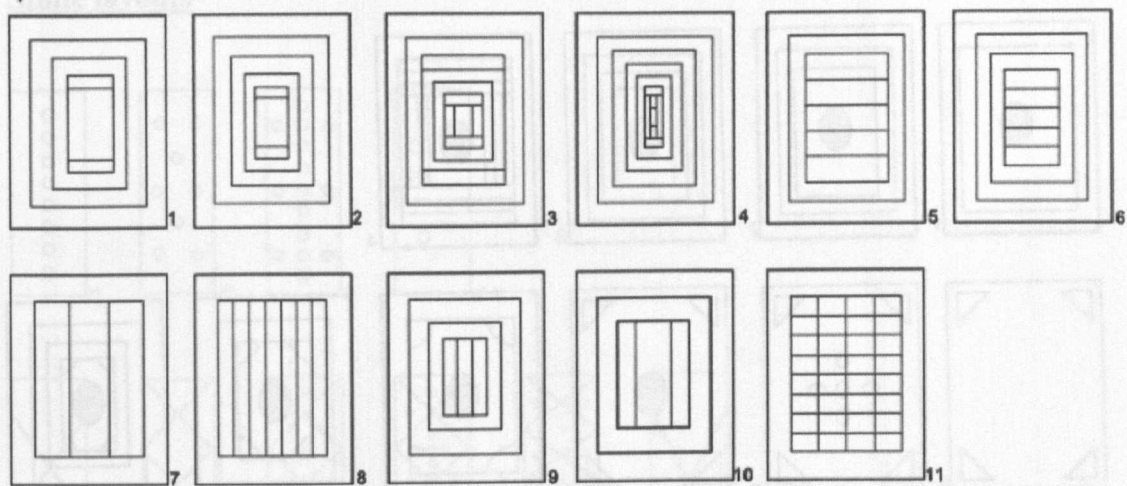
D



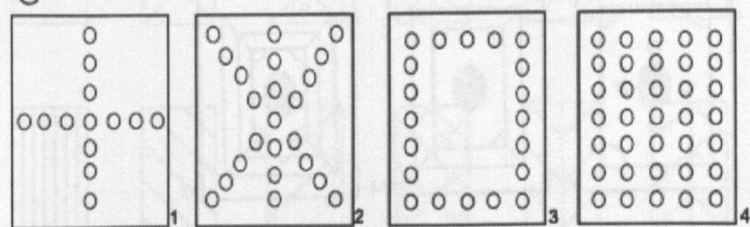
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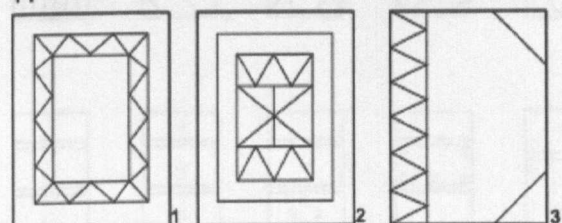
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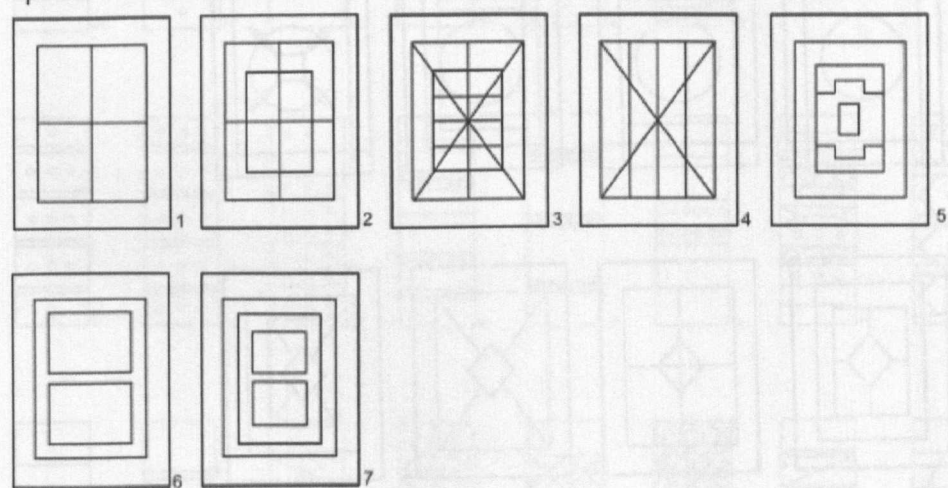
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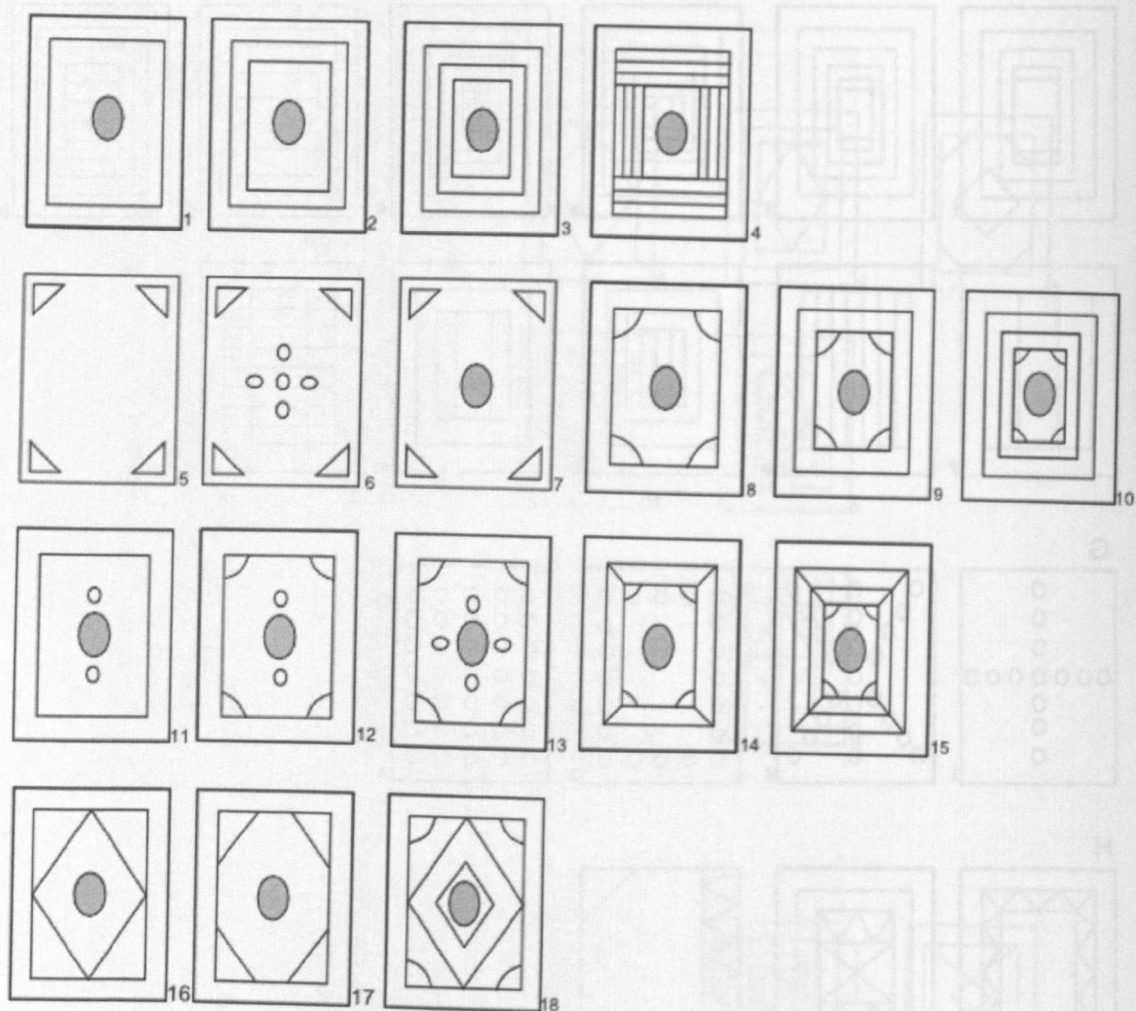
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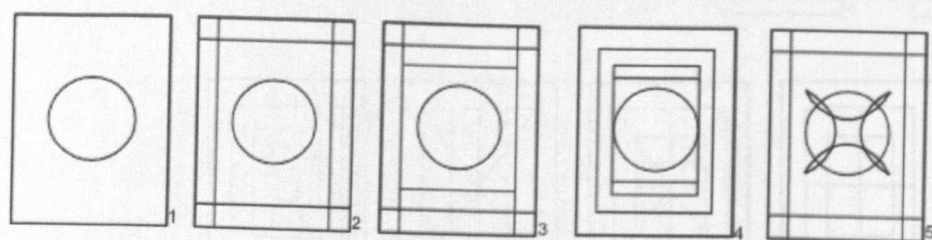
I



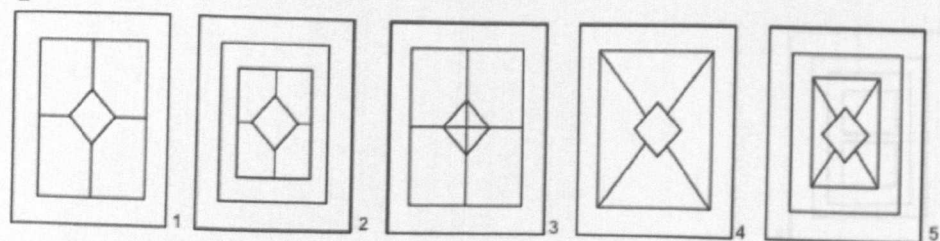
J



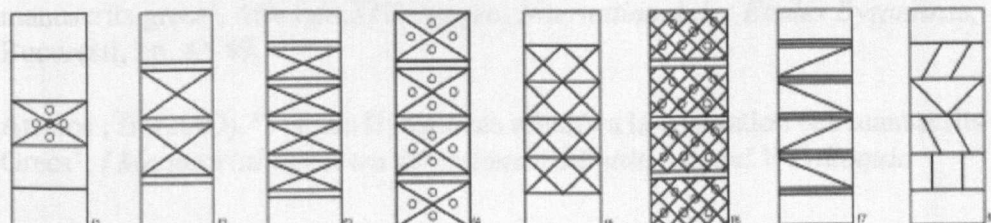
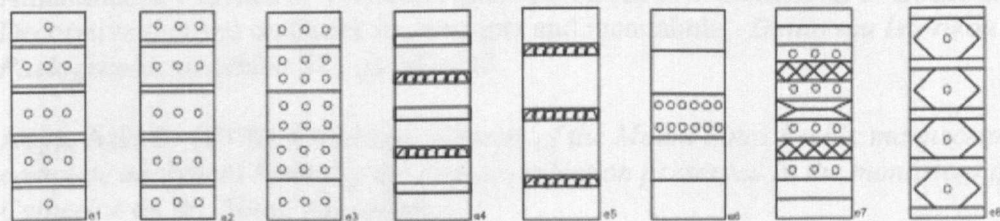
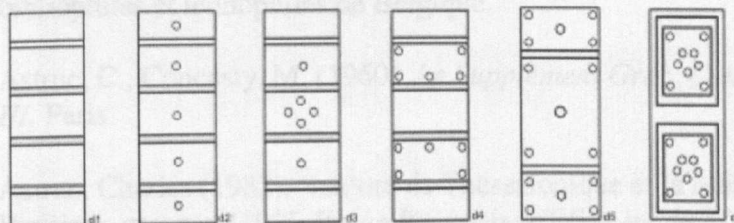
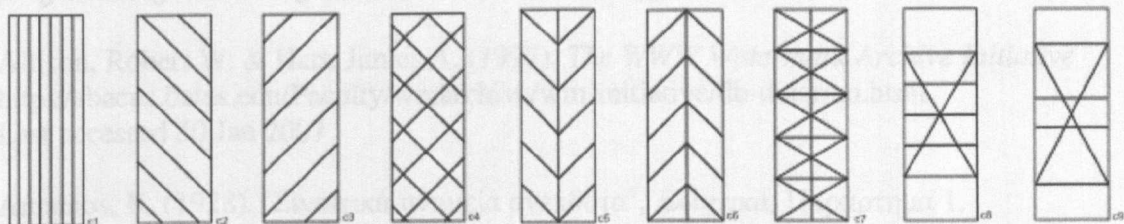
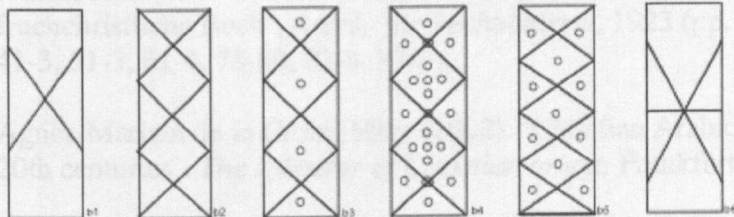
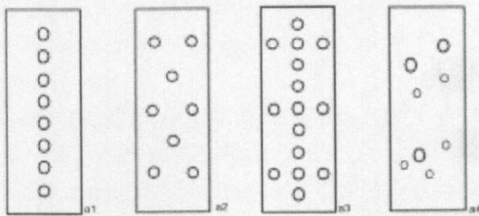
K



L



Spine layouts



APPENDIX VI

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