# **BOOK CONSERVATION AND TREATMENT RECORD** Library of Congress – Conservation Division

Master Control Number:	1784.008	Project Number & Name:	1784 / Hebrew Ms. microfilming project
Division: Division Contact:	AMED Ann Brener	Date In: Date Out:	
Conservator(s):	Bertonaschi	Examination Date:	9 December 2009
I.D./Call number:	Hebrew MS #165		
Title:			
Author:			
Imprint:	Partially written in 1720-21		
Alternative Format: Existing Container:			

### Background Information: (significance, provenance, set of volumes, labels, stamps, inscription):

The only Judeo-Persian manuscript owned by the Library. The binding is unusual and should be well documented.

#### **DESCRIPTION AND CONDITION:**

Cover Dimensions:	Height:	13.7	cm	Width:	11.6	cm	Thickness:	3.3	cm
Textblock Dimensions:	Height:	13.7	cm	Width:	11.6	cm	Thickness:	2.2	cm

Collation (signatures, format, leaves, pagination, foliation, and inserts):

23 sections, 91 leaves, collation done previously and written in graphite in upper left hand margin. The leaf between those numbered 57 and 58 is not numbered. Numbers cannot be seen on extremely deteriorated pages at front and back of the book.

### **General Description:**

A collection of charms, spells, folk remedies, lots, prayers, etc. Manuscript written in ink on paper. Full leather binding, sewn onto two leather thongs laced through boards. Boards appear to be a laminate of paper pulp and two layers of linen. Red accents are visible on the outer layers of linen. Elaborately woven endbands sewn over leather thongs at head and tail. Endband cores laced into boards. The leather is cut back on the spine to expose the endbands. There is a small slit in the leather turn-in at the fore edge of the upper board. The title page, which has been completely scribbled over with ink, has red pigment in the borders and center piece.

#### **General Condition:**

This book is in very poor condition. The boards do not fit the text block, exposing the text block edges at head and tail, and allowing more than a centimeter to extend past the boards on the fore edge. The leather is very dirty and worn around the edges. Turn-ins at head and tail on the upper board have pulled away; most of the turn-in at the head is missing. Boards appear to be laminates of linen and paper. They are delaminating, and both linen and paper are extremely dirty and tattered. Paste downs have distorted along with underlying fabric. Both paste downs and the text block at front and back of the book are in terrible condition, extremely dirty and fragmentary, with many missing pieces. The last several sections are stuck together in an irregular pattern near the tail. The center portions of the text are more intact, but the edges have suffered greatly for being exposed by the shrunken boards. The leaf numbered 62 is detached with a large portion in the center of the page torn out and missing. The leaf numbered 86 has been cut in half with the lower portion missing.

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BOARD				
Board:	<b>Covering Materials:</b>		Binding Style:	
missing	🖾 full	vellum	tight back	hollow back
wood	half	leather	case	baggy back
paste-board	quarter	tawed skin	laced-on	false bands
waterleaf / pul	p 🗌 bookcloth	calf	laced case	raised bands
binders board	textile	goat goat	tight joint	cords
other: linen an	d 🗌 paper	sheep	French joint	tapes
paper pulp				
laminate				
back cornered	cloth sides	🗌 pig	laced-in	$\boxtimes$ thongs: twisted
				leather
shaped	vellum sides			
tying-up mark	s paper sides/dec			
Contra				
SPINE	<b>.</b>	• • • •		
Spine Shape:	Upper Joint:	Lower Joint:	Endcaps:	Diagram(s):
flat	intact	intact	folded	
rounded	broken	broken	shaped	
	board loose	board loose	sewn	
backed	board detached	board detached	repaired	
concave			missing	
TITLE				
Titling Style:	Medium:	Location:	Tooling Style:	Tooling Location:
none	ink	upper board	none	upper board
manuscript	blind	lower board	blind	lower board
tooled	gilt	spine spine	gilt	board edges
label		edge of textblock	pigment	endcaps
		_ C	other	turn-ins
				spine
Title on spine:				
FASTENINGS A	ND FURNITURE			
Fastening Type:	Fastening Location:	Type of hinge:	Furniture:	Diagram(s):
none 🖂	hinges from	metal	none none	
		leather strap	corner/center pcs.	
clasps	lower board			
side pin	hinges from		bosses	

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pine Lining:	End	bands:	Core	2:	Deco	orative elements:	Diagram(s):
none		none	$\square$	single core		linen thread	
parchment patches	$\boxtimes$	both present		double core		silk thread	
paper		one present	$\boxtimes$	sewn		tawed	
textile textile		head	$\bowtie$	# of tie downs: 4		leather	
				are visible			
leather		tail		stuck-on		textile	
cannot see		evidence present	$\bowtie$	flat/round			
		cut off		tawed			
			$\bowtie$	tanned			
				cord			
				parchment		colors: :	
				paper		endband style:	
FWING							
	Sew	ino:	Text	block edges:	Text	block:	Diagram(s):
ewing supports:	Sew	-	Text	block edges:		block:	Diagram(s):
ewing supports:	Sew:	original	Text	<b>block edges:</b> trimmed untrimmed	Text	folio	Diagram(s):
ewing supports: unsupported supported	$\boxtimes$	-		trimmed			Diagram(s):
ewing supports: unsupported supported		original repaired		trimmed untrimmed		folio quarto	Diagram(s):
ewing supports:  unsupported supported single		original repaired resewn		trimmed untrimmed deckles h/t/fe		folio quarto octavo	Diagram(s):
ewing supports: unsupported supported single double tawed		original repaired resewn multiple sewings		trimmed untrimmed deckles h/t/fe colored:		folio quarto octavo other:	Diagram(s):
ewing supports: unsupported supported single double tawed tanned		original repaired resewn multiple sewings all-along		trimmed untrimmed deckles h/t/fe colored: gilt		folio quarto octavo other: intact	Diagram(s):
ewing supports: unsupported supported single double tawed tanned		original repaired resewn multiple sewings all-along abbreviated		trimmed untrimmed deckles h/t/fe colored: gilt speckled		folio quarto octavo other: intact	Diagram(s):
<ul> <li>supported</li> <li>single</li> <li>double</li> <li>tawed</li> <li>tanned</li> <li>cord</li> </ul>		original repaired resewn multiple sewings all-along abbreviated sawn-in		trimmed untrimmed deckles h/t/fe colored: gilt speckled tooled		folio quarto octavo other: intact	Diagram(s):
ewing supports: unsupported supported isingle double tawed itanned cord parchment		original repaired resewn multiple sewings all-along abbreviated sawn-in notched		trimmed untrimmed deckles h/t/fe colored: gilt speckled tooled		folio quarto octavo other: intact	Diagram(s):
ewing supports: unsupported supported single double tawed tanned cord parchment textile		original repaired resewn multiple sewings all-along abbreviated sawn-in notched oversewn		trimmed untrimmed deckles h/t/fe colored: gilt speckled tooled		folio quarto octavo other: intact	Diagram(s)

# TEXTBLOCK

other

Text	block materials:	Meth	od of marking:	Media	a:	Paper	condition:	Diagram(s):
	parchment	$\boxtimes$	manuscript		iron-gall ink		brittle	
$\boxtimes$	paper		woodblock	$\square$	other ink, color:	$\boxtimes$	stained	
	combination		printed		graphite	$\boxtimes$	tears	
	watermark		engraving		printer's ink	$\boxtimes$	losses	
$\boxtimes$	handmade		etching		printer's crayons	$\boxtimes$	accretions	
	machine made		lithography		colored ink		tape	
$\boxtimes$	laid		plate mark		watercolor		attachments	
	wove		hand colored		gouache		lined/silked	
	other		other		other		other	

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Eni	OSHEETS							
End	eaves:	Con	struction:	Boar	d sheet:	Joint	material:	Diagram(s):
$\boxtimes$	none		hooked	$\bowtie$	adhered		paper	
	same as textblock		whipstiched		not adhered		leather	
	paper		sewn gathering		integral endleaf	$\boxtimes$	cloth	
			tipped on		single folio		other	
					other			

## TREATMENT PROPOSAL:

Document structure extensively with notes, photographs, and diagrams. Construct a model of the structure. Repair on leafcaster, rebind, retaining original binding in housing.

Phot	tography:	Testing:	:	Testing Results:
$\boxtimes$	BT 🖾 AT	D pH	Н	
$\boxtimes$	slides	🖂 me	iedia	No moisture sensitivity. Fe I and II tests negative. Infra-red imaging also
				negative for iron-gall ink.
$\boxtimes$	digital	🗌 ph	hloroglucinol	
	transmitted	nir nir	inhydrin	
	raking	🗌 ро	otassium iodide	
	multi-spectral im	aging		

	ng information: osure:	Object:
$\square$	Housing	Custom made drop-spine box with original binding and component parts included.
	finishing	reamer put down. Turn-ms done last.
	covering	applied with book in laying press, wrapped with Ace bandage. Boards pasted out next and leather put down. Turn-ins done last.
$\boxtimes$	covering	supports laced through and secured with paste. Solits cut with cluster, sewing and endband supports laced through and secured with paste. Cotton hinge put down with paste. See Diagrams 2 and 3. Hewit goat skin. This book was covered in stages. Spine pasted out first and leather
$\boxtimes$	board attachment and shaping	mechanical attachment. Boards made up of 2-ply card with 5 layers of Dove Gray paper on each side, not laminated, wrapped with aero-linen and paste. Slits cut with chisel, sewing and endband
	spine linings and adhesives	Aero-cotton adhered with paste, slots cut to accommodate supports. Lining sewn through first and third sections and corresponding sections at the back of the book to provide a
	textblock consolidation/spine shaping endbands	25/3 linen thread for primary, tied down every section. Secondary chevron woven with two colors of silk.
	sewing	All along, 25/3 linen thread onto two alum-tawed thongs slit in the middle across the spine. Sewn onto a concertina of Japanese paper.
	endpaper construction	Falkiner Khadi paper (cotton rag) toned with acrylics. Four leaf sections sewn with text block.
Bind	ling:	
	flattening	below.
لاسع		33, 34, 62-90; back paste down. Preparation was done by bridging detached pieces and fragile breaks with small pieces of heat-set tissue applied with ethanol and heat. See note
	line leaf cast	The following pages were prepared for leafcasting - front paste down; pages 1-10, 27-31,
	guard	leafcasting. Because of differing sizes of pages, an extension made from leafcast offcuts was pasted to some pages at the tail edge so that an endband could be sewn at the tail. Fides Korean handmade #1003 (2013) with starch paste.
$\square$	mend	Japanese papers toned with acrylics, and starch paste. Pages trimmed to size after
	alkalize size	
	bleaching/stain removal	-
	washing	DI water conditioned to about pH7 with
$\boxtimes$	drycleaning removal of attachments	Grated eraser crumbs.
$\bigtriangledown$	devalganing	Cristed support supply

### Diagrams

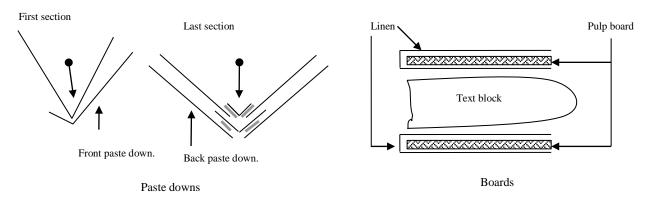


Diagram 1. Paste down configuration and board make-up of original binding.

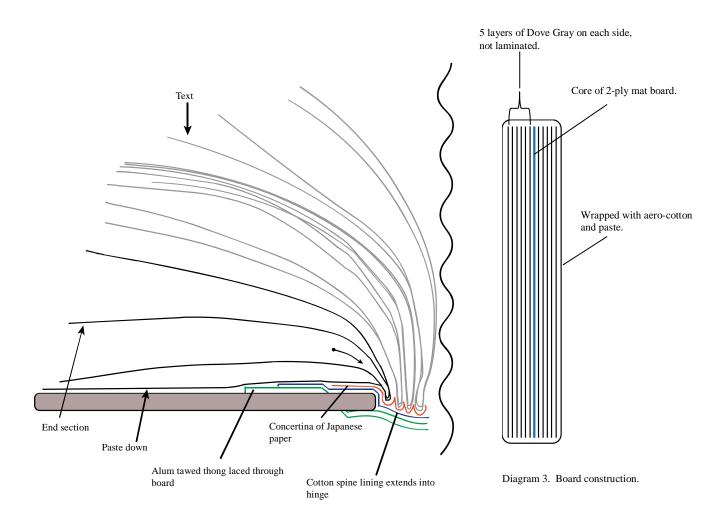


Diagram 2. Structure of new binding.

#### Notes on leafcasting

Fiber mix

3-10, 27-34, 62-87: 3 parts Mittel II (GMW – Gabi Kleindorfer, Germany); 2 parts brown kraft (soaked in DI water conditioned to pH8with Ca(OH)<sub>2</sub>).

Two casts each consisting of nine bifolia and three single leaves. Mask size 95 x 68 = 6460cm<sup>2</sup> Document size 74.2 x 40.2 = 2982.8cm<sup>2</sup> Margin = 3477.2cm<sup>2</sup> Document thickness = 0.0048". Processed a total of 38.25g fiber – 22.95g Mittel II, 15.3g brown kraft - in 12.75L @ 3g/L. Concentration 0.0036".



Cast 1. 5592ml + 10% = 6150ml.

Cast 2. 5755ml + 10% = 6330ml.



Cast 3. Pages 1-2, 88 and 89.

Casts 3 and 4 required differently toned fiber and a small deckle box.

Cast 3: Mask size 30 x 40 = 1200 cm<sup>2</sup> Document size 23.0 x 26.8 = 616.4 cm<sup>2</sup> Margin = 583.6 cm<sup>2</sup> Document thickness = 0.005" Fiber mix 3 parts Mittel II; 2 parts brown kraft Concentration 0.0042"; calculation 878ml + 10% = 965.8ml.



Cast 4. Paste downs and fly leaf.

Cast 4: Mask size  $30 \ge 40 = 1200 \text{ cm}^2$ Document size  $23.0 \ge 26.8 = 616.4 \text{ cm}^2$ Margin = 583.6 cm<sup>2</sup> Document thickness = 0.006" Fiber mix 2 parts MacGregor Tested Conservation; 2 parts brown kraft; 1 part cotton #1 Concentration 0.0044"; calculation 1085ml + 10% = 1193.5ml. Used 1200ml.

Cockling caused by brown kraft in the fiber mix.