

**Duke University Library
Conservation Lab
Perkins Library 023**

TREATMENT PROPOSAL FORM

Call No.: QM421 .S97 1672	Lab No.: 2016/17 – 418	
Library/Dept.: Rubenstein	Author/Artist: Swammerdam, Jan	
Librarian: Rachel Ingold	Title: Miraculum naturae	
Date Examined: 8/28/2018	Pub. Date: 1672	No. of pages: 58
Examined by: Henry Hebert	Size: H 20.9 cm W 16.0 cm T 1.2 cm	
Special instructions:		

Description:

Binding fully covered in red goatskin. Title in gold on the spine, double lines in blind around the outer edges of both boards. Note on rear pastedown indicates current binding was completed in 1963. New cream colored, laid paper endsheets. Two Trent collection bookplates are adhered to the front pastedown. Textblock is letterpress printed in black ink. Three large fold-out engravings, printed in black and hand colored in read, are included in the middle of the text. The volume is housed in a four-flap enclosure with clear polyester spine.

Condition:

The binding is in good condition. Some cracking of the leather at the front joint at the head, but inner hinges are intact and board attachment remains strong. Endsheets are in good condition. Some surface dirt and minor foxing throughout. No sewing or leaf attachment problems.

The primary condition issues are the fold-outs: Large tears, originating at the hinge and extending into the interior of the sheet, misaligned folds and creases, and cracking along the folds. Two of the fold-outs have been repaired with paper and aqueous adhesive, which has left dark tidelines around the site of the repair.

Treatment Proposal:

- Dry clean pages.
- Release mends
- Reduce tidelines on fold-outs using suction platen
- Repair tears and cracking along folds with low moisture repairs, such as remoistenable or heatset tissue.

Estimated Treatment Time: 3 hours

Proposed by: _____ (signature)	Date: _____
Approved by: _____ (signature)	Date: _____

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Treatment Performed:

- Mechanically removed two foldouts from textblock with a lifting knife.
- Tested the solubility of the red hand-applied pigment using basic water drop test (Paper Conservation Catalog, 10.4.16). Pigment is very soluble in DI water, ethanol, and a 50/50 mixture of the two.
- Photographically documented each engraving separately, including raking light images.
- Examined each under UV to determine if paper repairs could be reversed. The repairs appear to have been applied on the recto of each print and show dark purple in UV, similar to some acrylic adhesives.
- Humidified each print in a chamber, then sprayed out the verso with deionized water and flattened on the suction table. When dry, each print was turned face-up and washed on the suction table with local application of deionized water by brush to reduce tidelines. Previous repairs could not be reversed without further damaging the prints.
- New repairs were applied on the verso with untuned Matsuo Kozo #2 (Japanese Paper Place) and Aytex-P wheat starch paste on the suction table to prevent tidelines. Infills were completed using an additional layer of untuned HM-59 Japanese Paper (Hiromi) on the recto.
- The prints were refolded on the original fold lines and were tipped back into the text with wheat starch paste.
- The cracked joints of the binding were repaired with 1101 Hanji (Polistini), toned to match with Golden Fluid acrylic paints and adhered with Lascaux 498HV.

Total Hours: 8 hrs

Treated by: _____ (signature)	Date:
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