

## CONSERVATION DEPARTMENT

*Condition & Treatment Report*

**Object:** [1969.2132] Hinge, Strap hinge

**Creator Name:**

**Category:** Metals

**Title:**

**Material:** Iron

**Object Date: Dated: Earliest: 1750 Latest: 1800**

**Measurements:**

**Height:** 35.00 cm (13.78 in)

**Length:** 91.00 cm (35.83 in)

**Width:**

**Depth:** 2.00 cm (0.79 in)

**Diameter:**

**Weight:**



**Reason for Examination:** Gallery rotation

**Requested by:** Ann Wagner

**Catalog Description:** Iron strap hinge. The straps are flattened with partially chamfered edges and are attached by a three-knuckle hinge joint. The knuckles are of equal size. Each strap is bifurcated three times featuring two serpentine curves with bifurcated ends and snake-head terminals. Each strap has seven round nail holes. The hinge pin has a broad, flat head peened on each end over a thick washer. Traces of beige paint on the back of the straps.

A previous collection number is painted in red on the center knuckle: "5764".

**Previous Treatment:** No record of previous treatment.

**Condition:** Overall, the hinge is complete and structurally sound.

#### STRUCTURAL ISSUES

The hinge is structurally stable, but the size of the object and the delicate nature of the terminal decorations make it relatively challenging to handle.

#### CORROSION

There are areas of dry rust-colored corrosion products throughout the entire surface of the hinge.

#### SURFACE COATING

When viewed under magnification there is no evidence of a wax coating. Possibly the surface may have had a previous thin oil coating.

The object was examined under both long wave and short wave UV light using as the UV light source a Handheld Mineralight® Lamp (model number UVGL-58 with multiband UV at 254nm and 366nm; operates at 115 V, 60 Hz, and 0.16 amps; manufactured in December 1998 in

Upland, CA.) The surface of the iron does not fluoresce.

#### ACCRETIONS

There are accretions of tan paint and white paint or plaster on the back of the hinge.

#### LABELS/ACCESSION NUMBER

"G69.2132" is written in yellow paint on the back of the hinge; there is a clear isolating layer below the accession number.

**Proposed Treatment:** 1. Before and after treatment photography will be taken by Jim Schneck.

2. The yellow number will be removed from the back of the hinge to allow the surfaces to be cleaned and coated.

3. The surface will be cleaned with Shell Sol D-38 on cotton swabs and degreased with acetone.

4. The surface will be waxed with microcrystalline wax (Cosmolloid 80H in Shell-Sol D-38). The areas to be waxed will be warmed with a hot air gun. While the surface of the object is warm, the surface will be waxed. The wax will be applied with a soft brush and soft cloth; additional heat will be applied locally to the object with a heat gun as necessary. When the wax solvent has volatilized, the surfaces will be buffed with a soft natural bristle brush and/or a soft cloth. A matte waxed surface will then be created by applying heat and then pressure from a gloved hand to the waxed surface.

5. The accession number will be applied to the back of the object over a barrier layer of Paraloid B-67.

**Proposal By:** Madeline Hagerman

**Proposal Date:** 07/23/2018

**Authorized By:** Ann Wagner

**Authorization Date** 07/31/2018

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**Authorized By:** Lauren Fair

**Authorization Date** 08/22/2018

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**Treatment:** 1. Before and after treatment photography was taken by Jim Schneck.

2. The yellow number was removed from the back of the hinge to allow the surfaces to be cleaned and coated.

3. The surface was cleaned with Shell Sol D-38 on cotton swabs and degreased with acetone.

4. The surface was waxed with microcrystalline wax (Cosmolloid 80H in Shell-Sol D-38). The areas to be waxed were warmed with a hot air gun. While the surface of the object is warm, the surface was waxed. The wax was applied with a soft brush. Additional heat was applied locally to the object with a heat gun as necessary to even out the wax coating. When the wax solvent volatilized, the surfaces were buffed with a soft natural bristle brush.

5. The accession number was applied in red to the back of the object over a barrier layer of Paraloid B-67.

**Treated By:** Madeline Hagerman

**Date Completed:**09/10/2018

**Treatment Hours:** 7.00



1969.2132 OR NL BT 07 2018



1969.2132 OF NL AT 09 2018



1969.2132 OR NL AT 09 2018