

## K1366 Condition Report

**Conservation Started: 16/08/13**

**Conservation Finished: 16/08/13**

**Conservator: K. Fuller**

**Time Taken: 6.5 hours**

Including digital photography, report, conservation and packing.

**Dimensions:** (W) 21mm (H) 9mm (D) 1.5mm (Th.) 1.5mm

**Weight before:** 3.52g

**Weight after:** 2.75g

**Catalogue number:** 510

### **Digital photography:**

Taken with a Canon EOS digital camera under daylight or bulbs and a Keyence VHX-1000 3D digital microscope with LED and/or fibre optic lights (20-200x magnification). Taken before and after.

### **Annotation on any of the storage bags or boxes:**

X-Ray plate: L121

**Description:** Visual and microscopic examination using Meiji stereo microscope 7-75x magnification  
Part of a hilt fitting with a gold and garnet cloisonné geometric design like k1001 has indicating it is the other half. Repousse foils can be seen underneath garnets.

### **Associated Objects:**

**1001**

**Pre-Conservation Condition:** Visual and microscopic examination using Meiji stereo microscope  
7-75x magnification

Item is covered in soil accretions ~70% covering surface and back. Some edge consolidation has been carried out to prevent soil/ items falling out. Some broken and chipped garnets, as well as one with an imperfection can be seen. Soil is present between foil and garnet preventing reflection of light from surface. Appears forcibly ripped at one edge since the cell wall and structure is twisted and torn. Item is bent round in half at roughly the mid way point. A fair few garnets from middle section are missing as are the foil backing to go with. Minor scratches to surface can be seen- possibly polishing process.

**Treatment:** Carried out using a Meiji stereo microscope

**Purpose:** Study

**Aim:** Total cleaning

**Materials:** Soft natural/synthetic brushes, thorn in pin vice/holder, IMS on metals, 50:50 water/IMS on metals, water on garnets, cotton wool swabs, cocktail stick, Paraloid B72 20% in acetone.

The granular soil on the front/back was mechanically removed or reduced where possible using a fine thorn tip secured in a pin vice and a small pure bristle brush. IMS or water was used to soften the soil to facilitate removal. Loose particles of soil were then removed with a small swab of IMS.

Areas of foil and garnets were loosely fitting, and about to fall out, therefore items were adhered at the side or underneath item where possible with Paraloid B72 (ethyl methacrylate copolymer) HMG 20-30% in Acetone to keep them in place (Sample diagram).

The paper K number was adhered to the back with HMG brand Paraloid B72 (ethyl methacrylate copolymer) from the tube, applied with a cocktail stick.

A storage box padded with white polyethylene foam was made for housing the object. A strip of Tyvek (spun bound polyethylene fibres) was used as a cushion for the object and to help lift it out of the foam.

**Post-Conservation Condition/Findings:**

Two Piercings were found at one side underneath the soil in the cells. One cell had copper salt residue over the piercing area; this was photographed and paste separated from the soil in sampling. Other end has been clearly ripped and torn from its counterpart, as the cell walls are broken and garnets/ foil displaced in the soil.

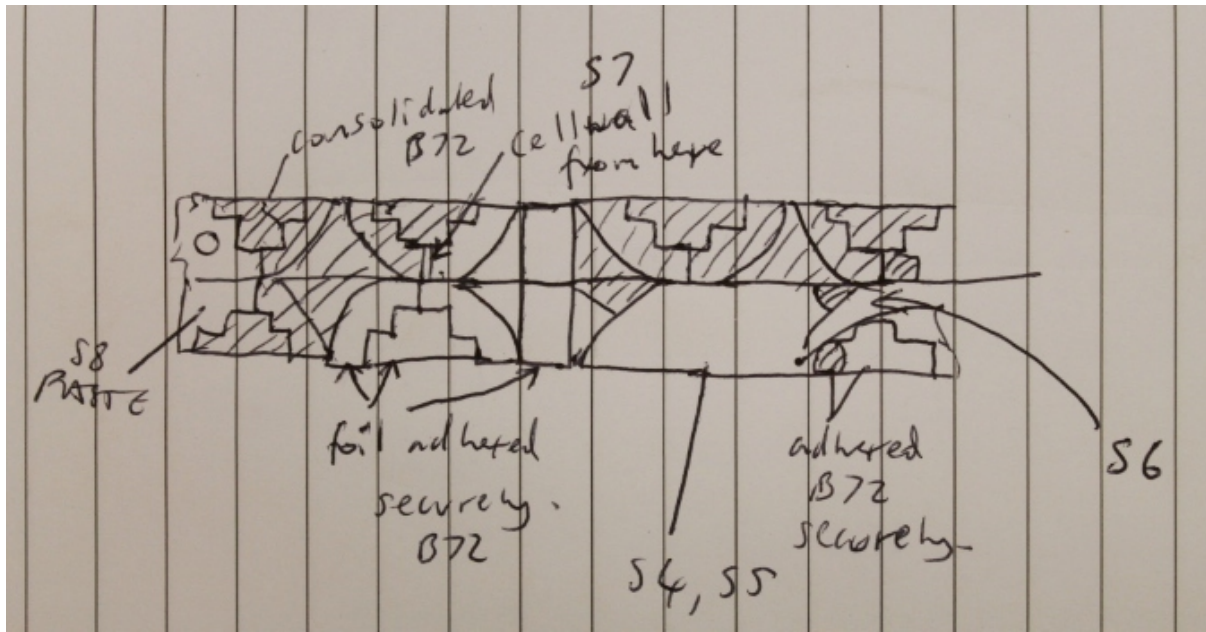
**Key Features:**

- Gold/ garnet cloisonné geometric design
- Part of hilt fitting (k1001 similar)
- Two piercings on one end within cell

**Analysis Undertaken:**

**Samples:**

- Sample 1: Soil from back
- Sample 2: Soil from front
- Sample 3: Rootlets from soil
- Sample 4: fragment of gold from cell
- Sample 5: Garnet from cell displaced within soil
- Sample 6: Garnet and foil displaced in cell
- Sample 7: Loose cell wall found adjacent to other cell wall
- Sample 8: Paste from piercing in cell at end



References: