

Title (en)

Process for obtaining a brochantit patina on a copper surface

Title (de)

Verfahren zur Erzeugung von Brochantit-Patina auf einer aus Kupfer bestehenden Oberfläche

Title (fr)

Procédé pour obtenir une patine de brochantit sur une surface en cuivre

Publication

**EP 0780495 B1 20010509 (DE)**

Application

**EP 96119420 A 19961204**

Priority

DE 19548261 A 19951222

Abstract (en)

[origin: EP0780495A2] A brochantite patina is generated on a copper surface in a continuous process in which the surface is first roughened and then made the anode in an electrolysis bath containing Na<sub>2</sub>CO<sub>3</sub> and/or NaHCO<sub>3</sub> and a salt of a sulphur containing acid. The temperature is 30-90 degrees C, the current density 1-20 A/dm<sup>2</sup> and the dwell time 10 seconds to 12 minutes. After rinsing it is then treated in a fixing bath containing at least one oxidising agent selected from H<sub>2</sub>O<sub>2</sub>, KClO<sub>3</sub>, K<sub>2</sub>S<sub>2</sub>O<sub>8</sub>, KMnO<sub>4</sub> or CuSO<sub>4</sub>. The temperature is 35-95 degrees C and the dwell time 10-120 seconds. Finally it is rinsed and dried.

IPC 1-7

**C25D 11/34**

IPC 8 full level

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