

Title (en)

A process to form a sulphide case at the surface of a metal part.

Title (de)

Verfahren zum Aufbringen einer Sulfidschicht auf einen metallischen Körper.

Title (fr)

Procédé pour former un revêtement de sulfure sur une surface d'objet métallique.

Publication

**EP 0218916 A1 19870422 (EN)**

Application

**EP 86112510 A 19860910**

Priority

CN 85106828 A 19850910

Abstract (en)

The present invention relates to a process and the corresponding equipment, with which a case of sulphide forms at the surface of metal part (5) by heating and gasifying sulphur, the metal part (5) is on the table (4) of cathode in a vacuum reacting chamber (1) of said equipment while a vapourizer (6) is provided in the same vacuum reacting chamber (1), the vapourizer (6) being heated with a low voltage supply (11) and used to hold solid sulphur. Under vacuum condition, solid sulphur will be gasified by heating and the gasified sulphur will be ionized and discharged with glow under the action of a direct electric field at high voltage between the anode (2) and cathode (4), under the glow discharge conditions, the positive sulphur ions will bombard the metal parts (5) which are located on the cathode table (4) and a sulphide case will be formed at the surfaces of parts (5).

IPC 1-7

**C23C 14/32**

IPC 8 full level

**C23C 8/36** (2006.01); **C23C 8/38** (2006.01)

CPC (source: EP)

**C23C 8/38** (2013.01)

Citation (search report)

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