

Title (en)

PROCESS AND APPARATUS FOR APPLYING CHILLED ELECTROSTATICALLY CHARGED PARTICLES TO THE SURFACE OF A LARGE METAL ARTICLE

Publication

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Application

EP 86304595 A 19860616

Priority

US 82180286 A 19860123

Abstract (en)

[origin: EP0237668A1] The process described herein comprises the application of chilled particles such as polytetrafluoroethylene generally marketed under the trade mark "TEFLON", graphite, molybdenum sulfite, boron nitride, etc., to a metal surface having crevices or pores therein. With the metal heated to expand the crevices or pores and the particles chilled to contract them, the particles will be locked into the pores when both the metal and the particles come to equilibrium temperature with the particles thereby expanding and the pores contracting. The process described herein is directed to such an application of chilled particles to expanded pores in large metal objects such as for example, large rolls (1). The large object is rotated on its linear axis (2) while maintained at the desired raised temperature and the particles are given an electrostatic charge and chilled prior to their application to the metal surface. Apparatus for effecting this application of electrostatically charged chilled particles is also described.

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Cited by

US6915963B2; DE10101369A1; EP1222966A3; US6857581B2; EP0235426B1

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