

Title (en)
ANODE FOR CATHODIC PROTECTION

Title (de)
ANODE FÜR KATHODISCHEN SCHUTZ

Title (fr)
ANODE POUR PROTECTION CATHODIQUE

Publication
EP 2004875 A1 20081224 (EN)

Application
EP 07701806 A 20070221

Priority
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• CA 2538949 A 20060307

Abstract (en)
[origin: CA2538949A1] An anode for use in cathodic protection of steel in concrete is formed from an electrically conductive material such as zinc and an ionically conductive material which is preferably a humectant and/or has a pH greater than 12 to enhance current flow. The materials are intimately intermixed through at least a part of the anode body and compressed into the anode body with an electrical connecting lead formed into a core of the body which is wholly conductive material. Portions of the electrically conductive material are pressed into electrical contact to form a plurality of electrically conductive paths within the anode body. Many of the voids in the body are interconnected to form a plurality of ionically conductive paths through the anode body by causing the humectant to migrate through the voids. The large surface area between the ionically conductive paths and the electrically conductive paths increase significantly the contact surface area of the anode body to increase current flow.

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CPC (source: EP)
C23F 13/06 (2013.01); **C23F 13/10** (2013.01); **C23F 2201/02** (2013.01)

Citation (third parties)
Third party :
• US 5292411 A 19940308 - BARTHOLOMEW JOHN J [US], et al
• VRABLE J.B.: "Cathodic protection for reinforcing steel in concrete", ASTM STP 629, 1977, pages 124 - 149, XP003030740

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