

Title (en)

Cathodic protection using conductive polymer concrete.

Title (de)

Kathodischer Schutz unter Anwendung eines leitfähigen Polymerbetons.

Title (fr)

Protection cathodique utilisant un béton polymère conducteur.

Publication

EP 0085582 A1 19830810 (EN)

Application

EP 83300579 A 19830204

Priority

US 34642882 A 19820205

Abstract (en)

An impressed current cathodic protection system for the reinforcing steel in concrete. Current is carried by a polymer concrete (16) which contains calcined fluid petroleum coke particles; the cured polymer concrete has a resistivity of less than 5 ohm-cm, which eliminates the need for large quantities of material and excessively high voltage in the system.

IPC 1-7

C23F 13/00

IPC 8 full level

C23F 13/02 (2006.01)

CPC (source: EP)

C23F 13/08 (2013.01); **C23F 13/16** (2013.01); **C23F 2201/02** (2013.01)

Citation (search report)

- [Y] US 4255241 A 19810310 - KROON DAVID H, et al
- [Y] US 4117065 A 19780926 - TSIEN HSUE C, et al
- [A] DE 2418977 A1 19741107 - ZANEN HOLLAND WEGENBOUW [NL], et al
- [A] MATERIALS PERFORMANCE, vol. 16, no. 11, November 1977, pages 21-29;

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EP0147977A3; EP0186334A1; EP0210058A1; US4865702A; USRE46862E; DE3690002C1; EP2836624A4; WO8604099A1; US9550247B2; US10648088B2; EP0122785B1

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