

Title (en)

Cathodic protection apparatus in systems for the circulation of corrosive liquids.

Title (de)

Ausstattung für den kathodischen Schutz in Kreislaufsystemen von korrosiven Flüssigkeiten.

Title (fr)

Equipement de protection cathodique dans des systèmes pour la circulation de liquides corrosifs.

Publication

EP 0324440 A1 19890719 (EN)

Application

EP 89100352 A 19890110

Priority

- JP 671788 A 19880114
- JP 9022188 A 19880414
- JP 21050188 A 19880826

Abstract (en)

In a shell-and-tube heat exchanger having titanium-material tube sheets (4) and tubes (3) and a pair of steel chambers (2) and adjoining steel piping (1) at each end, corrosion of the steel parts and hydrogen embrittlement of the titanium-material parts are prevented by an apparatus comprising: an electrically insulative lining (8) covering the entire inner wall surface of each chamber (2) and that of a specific region (I 2) of the contiguously adjoining piping (1); and at least one cathodic protection means (9) installed within the piping (1) at a position spaced apart by a specific distance (I 1) from the bottom face of each chamber (2), where the specific distance (I 1) is longer than the length of the specific region (I 2).

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CPC (source: EP KR)

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Citation (search report)

- US 4457821 A 19840703 - SUDRABIN LEON P [US], et al
- GB 1232334 A 19710519

Cited by

US6387226B1; WO9934032A1

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