

Title (en)
METHOD OF FORMING ANTICORROSION COATING

Title (de)
VERFAHREN ZUR AUSBILDUNG EINER ANTIKORROSIONSBESCHICHTUNG

Title (fr)
PROCÉDÉ D'ÉLABORATION D'UN REVÊTEMENT ANTICORROSION

Publication
EP 1770188 A1 20070404 (EN)

Application
EP 05736723 A 20050428

Priority
• JP 2005008133 W 20050428
• JP 2004140715 A 20040511

Abstract (en)
Anticorrosive coating is formed cheaply and in a short period, which facilitates its general application to marine steel structures. A steel caisson 1 is used as a cathode, an undersea member 3 arranged in seawater and opposed to the steel caisson 1 is used as anode. Direct current is passed between the electrodes so that anticorrosive coating 8 is formed on the steel caisson 1 through electrolytic reaction of the seawater, thereby attaining anticorrosion. The electric current is passed between the electrodes such that coating 7 with magnesium hydrate as dominant constituent is formed on the steel caisson 1 to have a predetermined thickness; then, supply of the electric current is stopped. Thus, anticorrosive coating 8 is formed through compositional substitution effect of substituting calcium carbonate for the magnesium hydrate in the presence of seawater.

IPC 8 full level
C23F 15/00 (2006.01); **E02D 31/06** (2006.01); **C23F 13/02** (2006.01); **C25D 9/10** (2006.01); **E02D 5/64** (2006.01)

CPC (source: EP US)
C25D 9/10 (2013.01 - EP US); **E02D 5/64** (2013.01 - EP US); **C23F 2213/31** (2013.01 - EP US)

Designated contracting state (EPC)
DE DK GB NL

DOCDB simple family (publication)
EP 1770188 A1 20070404; **EP 1770188 A4 20080723**; JP 2005320602 A 20051117; JP 4424059 B2 20100303; NO 20065301 L 20061117; US 2008029401 A1 20080207; WO 2005108645 A1 20051117

DOCDB simple family (application)
EP 05736723 A 20050428; JP 2004140715 A 20040511; JP 2005008133 W 20050428; NO 20065301 A 20061117; US 54747505 A 20050428