

Title (en)

CHISEL FOR A CRUST-BREAKING DEVICE AND METHOD OF OPERATING IT

Publication

EP 0025418 B1 19830216 (DE)

Application

EP 80810285 A 19800909

Priority

CH 815179 A 19790910

Abstract (en)

[origin: ES8106768A1] Device and method for breaking open the solidified crust of electrolyte on an electrolytic cell, in particular a cell for producing aluminum. At least one projection is provided on the lower part of the shaft of a chisel used on a crust breaker. After breaking through the crust, the chisel is lowered further at least until the lowest projection or projections reaches the lower half of the crust.

IPC 1-7

C25C 3/14; C25C 7/06

IPC 8 full level

B25D 3/00 (2006.01); **B25D 17/02** (2006.01); **C25C 3/14** (2006.01); **C25C 7/06** (2006.01); **C25D 7/00** (2006.01); **E21B 4/06** (2006.01)

CPC (source: EP US)

B25D 17/02 (2013.01 - EP US); **C25C 3/14** (2013.01 - EP US)

Cited by

EP3278931A1; CN109562509A; FR2465016A1; US11673246B2; WO2018024666A1

Designated contracting state (EPC)

AT CH FR GB IT LI NL SE

DOCDB simple family (publication)

EP 0025418 A1 19810318; EP 0025418 B1 19830216; AT E2551 T1 19830315; AU 539612 B2 19841011; AU 6211180 A 19810319; CA 1150189 A 19830719; DE 2943291 A1 19810402; DE 2943291 C2 19830210; ES 494888 A0 19810901; ES 8106768 A1 19810901; GR 69698 B 19820708; IS 1151 B6 19840305; IS 2583 A7 19810311; JP S5647582 A 19810430; NO 154173 B 19860421; NO 154173 C 19860806; NO 802645 L 19810311; NZ 194874 A 19841214; US 4317595 A 19820302; US 4380492 A 19830419; YU 231080 A 19830630; ZA 805336 B 19810930

DOCDB simple family (application)

EP 80810285 A 19800909; AT 80810285 T 19800909; AU 6211180 A 19800908; CA 359982 A 19800909; DE 2943291 A 19791026; ES 494888 A 19800908; GR 800162790 A 19800901; IS 2583 A 19800908; JP 12586980 A 19800910; NO 802645 A 19800908; NZ 19487480 A 19800908; US 18434380 A 19800905; US 32302181 A 19811119; YU 231080 A 19800910; ZA 805336 A 19800828