

Title (en)
RELEASE DEVICE FOR AN ELECTRODE SUPPORT IN ELECTRICAL FUSION FURNACES

Publication
EP 0036473 B1 19831012 (DE)

Application
EP 81100456 A 19810122

Priority
DE 3010894 A 19800321

Abstract (en)
[origin: ES8201301A1] An electrode holder is disclosed particularly for smelting furnaces which comprises an electrode arm, a fixed contact to the arm and a movable contact movably mounted to the arm. A biasing spring is connected in the mounting of the movable contact on the electrode arm to bias the movable contact toward the fixed contact to hold an electrode between the two contacts. A fluid pressure cylinder is provided in the electrode arm which acts on the movable contact to counteract the force of the spring to release the electrode from between the contacts. The fluid pressure cylinder is supplied by a fluid motor, fluid pump and fluid reservoir combination which is mounted as a constructional unit within the electrode arm. The fluid may be hydraulic or pneumatic. Electrical power is supplied to the motor by an electric line and air is supplied to a compartment containing the motor pump and reservoir combination. Flexible pressure fluid lines are therefore not required.

IPC 1-7
H05B 7/103

IPC 8 full level
F27B 3/08 (2006.01); **F27D 11/10** (2006.01); **H05B 7/103** (2006.01)

CPC (source: EP US)
H05B 7/103 (2013.01 - EP US)

Cited by
EP0340726A1; FR2563404A1; WO8911203A1

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI LU SE

DOCDB simple family (publication)
EP 0036473 A2 19810930; EP 0036473 A3 19811202; EP 0036473 B1 19831012; AT E5039 T1 19831015; BR 8101678 A 19810922; DE 3010894 A1 19811001; DE 3010894 C2 19851212; DE 3161142 D1 19831117; ES 499886 A0 19811216; ES 8201301 A1 19811216; JP S56144386 A 19811110; JP S597196 B2 19840216; NO 152315 B 19850528; NO 152315 C 19850904; NO 810958 L 19810922; US 4385391 A 19830524

DOCDB simple family (application)
EP 81100456 A 19810122; AT 81100456 T 19810122; BR 8101678 A 19810320; DE 3010894 A 19800321; DE 3161142 T 19810122; ES 499886 A 19810227; JP 3804881 A 19810318; NO 810958 A 19810320; US 24601881 A 19810320