

Title (en)

ARRANGEMENT OF CONTACT ELECTRODES FOR DIRECT-CURRENT ARC FURNACES OR RESISTANCE-MELTING FURNACES

Publication

EP 0219650 B1 19910410 (DE)

Application

EP 86111685 A 19860822

Priority

DE 3535692 A 19851005

Abstract (en)

[origin: US4700355A] A direct current arc or resistance melting furnace includes a contact electrode produced as an exchangeable assembly outside the furnace and introduced into an opening provided in the bottom of the furnace tank. An annular gap between a refractory lining of the furnace tank and the contact electrode assembly is tamped. For exchanging the contact electrode assembly, it is detached from the lining with the aid of pressure elements (telescoping cylinders) arranged below the furnace tank and lifted upward far enough for the contact electrode to be pulled out of the furnace tank by the grip of a pulling device. Then a new contact electrode assembly is inserted.

IPC 1-7

H05B 3/03; **H05B 7/06**

IPC 8 full level

F27D 11/10 (2006.01); **H05B 3/03** (2006.01); **H05B 7/06** (2006.01); **H05B 7/08** (2006.01); **H05B 7/10** (2006.01)

CPC (source: EP US)

H05B 3/03 (2013.01 - EP US); **H05B 7/06** (2013.01 - EP US)

Cited by

DE4222854A1; US5371759A; DE19921287A1

Designated contracting state (EPC)

AT CH DE FR GB IT LI SE

DOCDB simple family (publication)

EP 0219650 A1 19870429; **EP 0219650 B1 19910410**; AT E62577 T1 19910415; DE 3535692 A1 19870409; DE 3678666 D1 19910516; JP H0464155 B2 19921014; JP S6282694 A 19870416; US 4700355 A 19871013

DOCDB simple family (application)

EP 86111685 A 19860822; AT 86111685 T 19860822; DE 3535692 A 19851005; DE 3678666 T 19860822; JP 21992986 A 19860919; US 91522486 A 19861003