

Title (en)

Partial sealing device between the inside and the outside of an arc furnace.

Title (de)

Partielle Dichtungsanordnung zwischen der Innerseite und Aussenseite von einem Lichtbogenofen.

Title (fr)

Dispositif d'étanchéité partielle entre l'intérieur et l'extérieur d'un four à arc.

Publication

**EP 0515249 A1 19921125 (FR)**

Application

**EP 92401323 A 19920514**

Priority

FR 9106170 A 19910522

Abstract (en)

The device, according to the invention, for partial sealing between the inside (16) and the outside (18) of an electric arc furnace containing a vault (2) possessing at least one opening (4), an electrode (10) passing axially through the opening (4), a relatively sizeable passage (14) existing between the wall of the opening (4) and the electrode (10), includes a hollow element (20) placed on a horizontal plane outside surface of the furnace perpendicular to the axis (X-X) of the electrode (10) and constituting the outside end of the opening, the hollow element surrounding the electrode with an annular clearance (22). When the furnace is of the tilting type, the device includes stops (24) limiting the movement of the hollow element (20) during the tilting of the furnace. <IMAGE>

IPC 1-7

**F27D 23/00**; **H05B 7/12**

IPC 8 full level

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CPC (source: EP KR)

**F27B 1/00** (2013.01 - KR); **F27D 99/0075** (2013.01 - EP); **H05B 7/12** (2013.01 - EP); **F27B 3/085** (2013.01 - EP)

Citation (search report)

- [XP] EP 0437037 A2 19910717 - FOSECO INT [GB]
- [X] EP 0080335 A1 19830601 - COATED ELECTRODES LTD [GB]
- [A] GB 1332928 A 19731010 - BELOUSOV A A
- [A] GB 130678 A 19190814 - EICKHOFF THEODORE HENRY [US], et al

Cited by

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