

Title (en)

SAFETY DEVICE FOR DETECTING ELECTRODE BREAKAGE

Title (de)

SICHERUNGSEINRICHTUNG ZUR DETEKTION VON ELEKTRODENBRÜCHEN

Title (fr)

DISPOSITIF DE SÉCURITÉ SERVANT À DÉTECTER DES RUPTURES D'ÉLECTRODE

Publication

**EP 1825716 A1 20070829 (DE)**

Application

**EP 05850287 A 20051216**

Priority

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Abstract (en)

[origin: US2008304538A1] The invention relates to a safety device (1) for detecting electrode breakage in an electric arc furnace, wherein an electrode (6) is secured on an electrode support arm (4), and wherein a conduit is filled with a medium under a constant pressure and a pressure drop is produced at an electrode breakage, which is detected as an alarm signal. Here, the conduit (7a-d,3) is integrated in a protective component that is arranged beneath the electrode support arm (4) thereon, wherein in case of an electrode breakage, the conduit (7a-d,3) is damaged by a produce electric arc and the pressure drop takes place.

IPC 8 full level

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CPC (source: EP KR US)

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