

Title (en)

High-current conductor system for electric furnaces.

Title (de)

Hochstromleitungssystem für Elektroöfen.

Title (fr)

Système de conducteurs pour courant intense pour fours électriques.

Publication

EP 0061612 A1 19821006 (DE)

Application

EP 82101844 A 19820309

Priority

DE 3111485 A 19810324

Abstract (en)

[origin: ES8303874A1] In this system, the electrode supporting arms (2) formed of a closed, hollow, liquid cooled profile for an electric furnace are provided with a vertical member (14) having the same type profile structure at whose lower end the electrode (17) is exchangeably fastened, preferably by means of a clamping device (15). For better current transfer, the supporting arms (2) are in part made of a two-component compound material, preferably to correspond to their current charges.

Abstract (de)

Bei diesem System werden die aus einem geschlossenen hohlen flüssigkeitsgekühlten Profil gebildeten Elektrodentragarme (2) eines Electroofens mit einem vertikalen Teil (14) gleicher Bauweise versehen, an dessen unterem Ende die Elektrode (17) vorzugsweise mittels einer Spannvorrichtung (15) auswechselbar befestigt ist. Die Tragarme (2) sind zur besseren Stromübertragung bevorzugt entsprechend ihrer Strombeaufschlagung zum Teil aus einem Zwei-Komponenten-Verbundwerkstoff hergestellt.

IPC 1-7

H05B 7/101; H01B 7/34

IPC 8 full level

H05B 7/101 (2006.01); **H05B 7/11** (2006.01)

CPC (source: EP US)

H05B 7/101 (2013.01 - EP US)

Citation (search report)

- US B824153 I
- DE 1565382 A1 19700115 - ASEA AB
- DE 2918757 A1 19791122 - CANADA STEEL CO
- FR 2176546 A1 19731102 - SIDERURGIE FSE INST RECH [FR]
- DE 808737 C 19510719 - EUGENIO LUBATTI

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DE102009034407A1; EP1901586A1; DE102006027648A1; DE3422950A1; DE3319389A1; FR2682254A1; EP0167485A1; EP0135473A1; GB2271836A; EP0594272A1; GB2271836B; US5676007A; EP0218141A1; EP2928267A1; WO2014044548A1; WO2011009622A1; DE102014208516A1

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DOCDB simple family (application)

EP 82101844 A 19820309; AT 82101844 T 19820309; BR 8201619 A 19820323; CA 399162 A 19820323; DE 3265147 T 19820309; ES 510676 A 19820323; JP 4576382 A 19820324; MX 19193982 A 19820323; US 35767582 A 19820312