

Title (en)

Arrangement for heating an elongated piece of electrically conductive material.

Title (de)

Vorrichtung zum Erwärmen eines Strangs aus elektrisch leitfähigem Material.

Title (fr)

Dispositif pour le chauffage d'un produit long en matériau conducteur électrique.

Publication

EP 0487504 B1 19941026 (DE)

Application

EP 92101679 A 19861209

Priority

- DE 3543569 A 19851210
- EP 86117107 A 19861209

Abstract (en)

[origin: EP0228615A2] The invention relates to a device for heating a billet being passed in a duct. The billet consists of an electrically conductive material, preferably material that hardens as a result of the heating, for example a raw mixture containing a binder for production of building materials; a capacitor plate arrangement connected to at least one RF generator being arranged so that it is electrically insulated from the billet. The capacitor plate arrangement is designed so as to permit as uniform heating of the billet material as possible and so as to prevent formation of a skin within the billet. <IMAGE>

[origin: EP0228615A2] The pairs of electrodes (30,31) are coupled to a high frequency generator (23) to provide the heating effect. The electrodes form capacitor plates, electrically insulated from the strip material. Smaller plates (32) are positioned on the sides of the strip where there are no main and are similarly linked to the generator. The overall heating effect from the different pairs of electrodes an even heating pattern without forming any localised discontinuities, especially for heat setting materials.

IPC 1-7

H05B 6/60; H05B 6/48

IPC 8 full level

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CPC (source: EP)

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Citation (examination)

- DE 858868 C 19521211 - SIEMENS AG
- US 2288269 A 19420630 - CRANDELL ERVIN L

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DOCDB simple family (publication)

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