

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 A1 19920527 (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.

Abstract (de)

Die Erfindung betrifft eine Vorrichtung zum Erwärmen eines in einem Kanal geführten Strangs aus einem elektrisch leitfähigen, vorzugsweise durch die Erwärmung sich verfestigenden Materials, beispielsweise eine Bindemittel aufweisende Rohmischung zur Herstellung von Baustoffen, wobei eine Kondensatorplattenanordnung, die an mindestens einen Hochfrequenzgenerator angeschlossen ist, elektrisch isoliert gegenüber dem Strang angeordnet ist. Die Kondensatorplattenanordnung ist dabei so ausgestaltet, daß sie eine möglichst gleichmäßige Erwärmung des Strangmaterials ermöglicht und eine Schalenbildung innerhalb des Strangs vermieden wird. <IMAGE>

IPC 1-7

H05B 6/48; H05B 6/60

IPC 8 full level

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CPC (source: EP)

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- [A] DE 933046 C 19550915 - SIEMENS AG

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