

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

**B28B 3/20** (2006.01); **B28B 7/42** (2006.01); **B28B 11/24** (2006.01); **B30B 5/06** (2006.01); **H05B 6/48** (2006.01); **H05B 6/60** (2006.01)

CPC (source: EP)

**B28B 3/20** (2013.01); **B28B 7/42** (2013.01); **B28B 11/24** (2013.01); **B30B 5/06** (2013.01); **B30B 15/0088** (2013.01); **B30B 15/34** (2013.01); **H05B 6/60** (2013.01)

Citation (examination)

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

Designated contracting state (EPC)

AT CH DE FR GB LI

DOCDB simple family (publication)

**EP 0228615 A2 19870715; EP 0228615 A3 19880608; EP 0228615 B1 19921007**; AT E112129 T1 19941015; AT E113434 T1 19941115; AT E114212 T1 19941215; AT E81434 T1 19921015; DE 3543569 A1 19870611; DE 3650076 D1 19941027; DE 3650115 D1 19941201; DE 3650141 D1 19941222; DE 3686938 D1 19921112; EP 0485363 A2 19920513; EP 0485363 A3 19920527; EP 0485363 B1 19941117; EP 0486472 A2 19920520; EP 0486472 A3 19920527; EP 0486472 B1 19940921; EP 0487504 A1 19920527; EP 0487504 B1 19941026

DOCDB simple family (application)

**EP 86117107 A 19861209**; AT 86117107 T 19861209; AT 92101679 T 19861209; AT 92101680 T 19861209; AT 92101681 T 19861209; DE 3543569 A 19851210; DE 3650076 T 19861209; DE 3650115 T 19861209; DE 3650141 T 19861209; DE 3686938 T 19861209; EP 92101679 A 19861209; EP 92101680 A 19861209; EP 92101681 A 19861209