

Title (en)

DEVICE FOR INDUCTIVELY HEATING FLAT METAL MATERIALS.

Title (de)

VORRICHTUNG ZUM INDUKTIVEN ERWÄRMEN VON FLACHEM METALLISCHEM GUT.

Title (fr)

DISPOSITIF DE CHAUFFAGE INDUCTIF DE MATERIAUX METALLIQUES PLATS.

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Application

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Abstract (en)

[origin: WO9103916A1] The invention discloses a device for inductively heating flat metal materials (4'), with at least one pair of induction coils which form a gap (5) through which the material (4') can pass. The induction coils (1, 2, 3, 4) have an iron core made up of transformer stampings with grooves (17-23 and 25-31) in which current conductors (32-38 and 40-46; 47-60; 64-78) are arranged. The iron cores of at least one inductor coil (1, 2, 3, 4) have grooves which run in a zig-zig or undulating fashion in the direction of motion (16) of the material (4'). The maximum angle these grooves (17-23 and 25-31) make with the direction of motion (16) of the material (4') is 60, and the current conductors (32-38 and 40-46; 47-60; 64-78) in the grooves (17-23 and 25-31) follow the grooves. The inductor coils (1, 2, 3, 4) of at least one inductor-coil pair have several current conductors (32-38 and 40-46; 47-60; 64-78) located side-by-side, which carry current in the same direction and at least some of which can be switched independently.

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