

Title (en)

MAGNETIC INDUCTION-HEATING DEVICE FOR RECTANGULAR METALLIC FLAT PRODUCTS MOVING LENGTHWISE

Publication

EP 0081400 B1 19860827 (FR)

Application

EP 82401998 A 19821028

Priority

FR 8121238 A 19811113

Abstract (en)

[origin: US4481397A] Magnetic induction heating apparatus for flat, rectangular metal products travelling in the direction of their longitudinal axis, comprising at least one inductor mounted so as to rotate about an axis perpendicular to a wide face of the metal product and comprising at least two magnetic poles having polar surfaces sweeping out an annular area as the inductor rotates about the perpendicular axis. In order to effectuate the homogeneous heating of the metal product in the transverse direction, the polar surface of each magnetic pole has the shape of a curvilinear triangle with a truncated apex directed toward the axis of rotation of the inductor, two concave sides which are symmetric with respect to a straight line passing through the truncated apex and perpendicular to the axis of rotation, and a convex side of circular arc centered about the axis of rotation having a radius of curvature essentially equal to the external radius of the annular area sweep by the polar surfaces of the magnetic poles.

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IPC 8 full level

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CPC (source: EP US)

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EP 82401998 A 19821028; DE 3272924 T 19821028; FR 8121238 A 19811113; JP 19788382 A 19821112; US 44109482 A 19821112