

Title (en)

Induction heating coil assembly for prevention of circulating currents in induction heating lines for continuous-cast products

Title (de)

Induktionsheizspule zur Verhütung von zirkulierenden Strömen in Induktionsheizstößen für Stranggussprodukte

Title (fr)

Assemblage d'une bobine de chauffage par induction pour éviter la circulation de courants dans une ligne de chauffage par induction de produits de coulée continue

Publication

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Application

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Priority

EP 96303499 A 19960517

Abstract (en)

An induction heating coil assembly for use in a roller induction heating line has a magnetic shunt (30) for receiving a portion of an electromagnetic field generated along the axis of the induction coil (28) and directing that portion along a path parallel to a workpiece (26) passing along the heating line. This flux path ensures that eddy currents induced in the workpiece (26) flow primarily perpendicular to the axis of the workpiece, and not along the axis of the workpiece where they could cause arcing between the moving workpiece and the conveyor rolls.

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