

Title (en)
DEVICE FOR HEATING A MEDIUM

Title (de)
HEIZEINRICHTUNG ZUM ERWÄRMEN EINES MEDIUMS

Title (fr)
DISPOSITIF DE CHAUFFAGE DESTINE A CHAUFFER UN MILIEU

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Application
EP 96905661 A 19960318

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Abstract (en)
[origin: WO9629845A1] The invention concerns a device (10) for heating a solid or liquid medium (11), the device having a rotating part (15, 18) with, disposed round its circumference, several permanent magnets (22, 24) which generate a magnetic field in which the electrically conducting medium (11) is located. The magnetic field of these permanent magnets (22, 24) radiates out approximately radially. The rotation of the rotating part results in a relative motion between the magnets and the medium, thus producing eddy currents in the magnets and hence heating of the magnets. Used as the medium (11) is electrically conducting water which is passed through a coil (14) wound round the rotating part and separated by a given distance from the rotating part. The coil has an inlet and an outlet (35, 36) which are connected to a line which is connected on the outlet side to a consumer and comes back in a closed loop to the inlet side again. The heating device (10) can be used to supply heat extremely efficiently to a medium.

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