

Title (en)
ROTATING TRANSFORMER

Title (de)
ROTIERENDER TRANSFORMATOR

Title (fr)
TRANSFORMATEUR TOURNANT

Publication
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Application
EP 06831003 A 20061024

Priority
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Abstract (en)
[origin: WO2007048920A1] A transformer makes it possible to transmit electric power by electromagnetic induction between first (11) and second coils concentrically arranged on first (7) and second (8) tubular parts, respectively, which are made of a ferromagnetic material and coaxially mounted in such a way that the external surface (13a, 13b, 13c) of one part is rotatable in front of the internal surface (14a, 14b, 14c) of the other part. Each surface consists of two straight cylindrical rotatable surfaces (13a, 13c; 14a, 14c) which have different diameters and extend from one axial end of the part (7; 8) to the intermediate radial flange (13b; 14b) of the connection thereof. Said parts (7; 8) are arranged in a head-to-tail manner one into another in such a way that an annular space is delimited between the flanges (13b; 14b) for receiving the coils (11, 12) between two gaps each of which is delimited by two (13a, 14a; 13b, 14b) cylindrical surfaces positioned in front of the first (7) and second (8) parts. Each coil comprises at least one layer of several tape-shaped threads.

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