

Title (en)

ELECTROMAGNETICALLY ACTUATED, SINGLE-SURFACE FRICTION COUPLING, WITHOUT A ROTOR SLIP RING

Title (de)

ELEKTROMAGNETISCH BETÄTIGBARE, SCHLEIFRINGLOSE EINFLÄCHEN-REIBUNGSKUPPLUNG

Title (fr)

EMBRAYAGE A UNE SEULE SURFACE DE FRICTION EXEMPT DE BAGUE GLISSANTE ET A COMMANDE ELECTROMAGNETIQUE

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Application

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Abstract (en)

[origin: WO0208627A1] The invention relates to an electromagnetically actuated single-surface friction coupling without a rotor slip ring. Said coupling comprises: a rotor element (2), a fixed magnet body (6) and a well-shaped armature element (28) which can be displaced in an axial manner. A cylindrical jacket section (28B) of the armature element (28) extends along the external jacket surface (12) of the magnet body (6) and is separated from the latter by a narrow radial air-gap. A working air-gap (S), which can be bridged, is situated between the armature element (28) and a friction surface (30) of the rotor element. To maintain the lowest possible inertia torque for the power take-off, the rotor element (2) is located on the power take-off side and the armature element (28) is located on the drive side.

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