

Title (en)
TORQUE TRANSMITTING BODY FOR TRACTION DRIVE TRANSMISSIONS AND NORMAL FRICTION FORCE DEVELOPING METHOD.

Title (de)
DREHMOMENTÜBERTRAGUNGSKÖRPER FÜR ZUGGETRIEBE UND SENKRECHTE REIBUNGSKRAFTENTWICKLUNGSWEISE.

Title (fr)
CORPS DE TRANSMISSION DE COUPLE POUR DES TRANSMISSION DE TRACTION ET PROCEDE DE DEVELOPPEMENT DE FORCE DE FRICTION NORMALE.

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Application
EP 81900275 A 19800519

Priority
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Abstract (en)
[origin: WO8103366A1] A nutating traction drive in which external rolling surfaces on a one-piece bi-conical body (10) are retained against axially spaced internal ring surfaces (51, 52) at diametrically opposite points of contact by a mechanism acting between a body (18) which is rotatable on the axis of the ring surfaces or a first axis (24) and which carries the biconical body (10) on a second axis (30) inclined with respect to and intersecting the first axis at a point (S) of axes intersection located midway between the ring surfaces (51, 52) and points of contact. The mechanism includes a pivotal member (66) having a fulcrum point (78) eccentric from the first axis (24) or displaced from a plane containing both the first (24) and second (30) axes so that a torque reaction to rotation of the carrying body (18) by the biconical body (10) results in a force attempting to increase the angle between the first (24) and second (30) axes. A preloading device (82) acting to rock the pivot member (66) in one direction provides a preload bias of the rolling surfaces against each other whereas an unloading device (84) operating to swing the pivot member in the opposite direction results in a removal of normal friction force between the engaged rolling surfaces.

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