

Title (en)
GEAR WITH OVAL PINIONS

Title (de)
GETRIEBE MIT OVALEN ZAHNRÄDERN

Title (fr)
ENGRENAGE A PIGNONS OVALES

Publication
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Application
EP 97931608 A 19970725

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Abstract (en)
[origin: WO9905435A1] The invention relates to a gear for the positive transmission of a torque, wherein two shafts (3; 4) are coupled via swivel linkages (5, 6) to the ends of a chain provided with at least two chain links (25, 26, 27), wherein said chain is based on the reversible cube principle. Each chain link (25; 26; 27) is connected to the adjacent chain link (25; 26; 27) via a linkage (8; 9) having a single linkage axis (51; 52). The swivel axes (50; 53) of said swivel linkage (5; 6) and the linkage axes (51; 52) of said linkages (8; 9) are successively rotated through 90 DEG relative to one another, and said chain links (25, 26, 27) are adapted in such a way that the two end chain links (25; 27) have the same length, and the mid-point of a connecting line between said linkages (8; 9) forms a closed loop when said shafts (3; 4) are rotating. The inventive gear comprises two oval pinions (12; 13; 14; 15) of which the rotation axes (3; 4; 28; 29) are at a constant spacing.

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