

Title (en)
VARIABLE RATIO ROTARY TRANSMISSION.

Title (de)
ROTATIONSGETRIEBE MIT VERÄNDERLICHER ÜBERSETZUNG.

Title (fr)
TRANSMISSION ROTATIVE A RAPPORT VARIABLE.

Publication
EP 0062654 A4 19840613 (EN)

Application
EP 81902827 A 19811020

Priority
AU PE613680 A 19801020

Abstract (en)
[origin: WO8201406A1] A rotation transmission mechanism (10; 200) having coaxially rotatable input and output shafts (12, 14; 212, 214). A plurality of coupling elements (32, 34; 220, 222) are carried by the input shaft (12, 212) for rotation with the input shaft. The coupling elements (32, 34; 220, 222) are constrained for movement in and out relative to the axis of the input shaft (12; 212). Each coupling element (32, 34; 220, 222) is arranged to reciprocate back and forth relative to the axis of the input shaft (12, 212) during rotation of the input shaft (12, 212). Cam means (82, 80, 98; 274, 270, 272) is provided for selectively transferring the movements of the coupling elements to effect incremental rotations of the output shaft. The reciprocatory movements of the coupling elements are provided by virtue of driving of the coupling elements through eccentric means (52, 38, 36; 230, 232, 260, 262), the eccentric means operating pursuant to the rotation of the input shaft (12; 212) to effect the said reciprocatory movements with an amplitude which is dependent upon the degree of eccentricity. By varying the eccentricity the amplitudes are varied whereby to vary the incremental movements which are imparted to the output shaft (14; 214) during each rotation of the input shaft (12; 212) whereby to vary the drive ratio between the input shaft (12; 212) and output shaft (14; 214).

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Citation (search report)

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