RECIPROCATING PUMP

Publication

EP 0265591 B1 19910724 (EN)

Application

EP 87107692 A 19870526

Priority

JP 25519486 A 19861027

Abstract (en)

[origin: EP0265591A2] A reciprocating pump comprises three parallel connected plunger piston arrangements and is driven via a cam mechanism (10) by means of a rotary driving device. In order to insure a constant discharge, the cam mechanism (1) comprises three plate cams (14) fixed on a common shaft (13) so that they are spaced 120 DEG apart from each other, the displacement curve (a1: a2; a3) of each plate cam has an ascending region in which displacement increases as the angle of rotation of the plate cam increases, and a descending region in which displacement acceleratingly changes, a uniform velocity section in which displacement linearly changes, and a decelerating section in which displacement decleratingly changes, the arrangement being such that the sum of the displacement per unit angle of rotation in the accelerating section in the uniform velocity section.

IPC 1-7

F04B 11/00

IPC 8 full level

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CPC (source: EP)

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Cited by

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