

Title (en)  
PUMP HAVING PISTON AND CYLINDER ROTATABLE RESPECTIVELY ABOUT SPACED AXES TRANSVERSE TO THE RECIPROCATING AXIS

Publication  
**EP 0143521 A3 19851002 (EN)**

Application  
**EP 84306162 A 19840910**

Priority  
US 53477683 A 19830922

Abstract (en)  
[origin: EP0143521A2] A pump assembly (10) including a piston (12) connected to a rotating wheel (30) by a pin (32) radially offset from the axis of rotation of the wheel and a cylinder (14) in reciprocating telescoping relationship with the piston (12) and supported by a hollow shaft (26) for rotation in a housing member (24) so that the piston (12) rotates about the axis of a supporting shaft (22) extending transversely to the reciprocating movement while the cylinder (14) rotates about another axis transverse to the reciprocating movement with the distance between the two axes being adjustable to vary the displacement of the pumping chamber (16) between zero when the two axes coincide to a maximum degree when the two axes are spaced the maximum amount. The housing (24) rotatably supporting the hollow shaft (26) of the cylinder (14) includes two fixed fluid ports (50, 52) which alternately communicate with an axially aligned radial port (48) in the hollow shaft (26).

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IPC 8 full level  
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CPC (source: EP)  
**F04B 1/1136** (2013.01); **F04B 19/02** (2013.01)

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**EP 0143521 A2 19850605**; **EP 0143521 A3 19851002**; **EP 0143521 B1 19880504**; AT E34021 T1 19880515; AU 3262084 A 19850328; AU 565294 B2 19870910; DE 3470914 D1 19880609; JP H0461194 B2 19920930; JP S60145469 A 19850731; NO 162306 B 19890828; NO 162306 C 19891206; NO 843795 L 19850325

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