

Title (en)  
ROTARY PISTON PUMP

Title (de)  
ROTATIONSKOLBENPUMPE

Title (fr)  
POMPE A PISTON ROTATIF

Publication  
**EP 0617753 B1 19961016 (DE)**

Application  
**EP 92924672 A 19921205**

Priority  
• DE 9115838 U 19911220  
• EP 9202813 W 19921205

Abstract (en)  
[origin: US5580227A] The present invention relates to a rotary piston pump for conveying and/or metering liquid or pourable media. It consists of a pump casing (2) with a cylinder chamber (4) having a cylindrical inner periphery (6) into which open at least one inlet (8) and at least one outlet (10), and a rotary piston (20) rotating inside the cylinder chamber (4) which, together with at least one region of its outer peripheral surface (22) forms a seal with the inner peripheral surface (6) of the cylinder chamber (4) and is separated in regions from the inner peripheral surface (6) by a radial stroke distance. When the rotary piston rotates (arrow 70), an expanding working chamber (24) is formed in the region of the inlet (8) to draw the medium in and, on further rotation, contracts again in the region of the outlet to force the medium out. The working chamber (24) concerned is limited, at least during its increase or decrease in volume, by at least one separating slide (26) in front of the inlet (8) or behind the outlet (10) viewed in the direction of rotation. Said slide is moved to and fro (arrow 32) in the pump casing (2), as the rotary piston (20) rotates, in a substantially radial direction to the axis of rotation (34) in such a way that it forms a seal with the outer peripheral surface (22) of the rotary piston (20). The separating slide (26) is forcibly moved by means of a drive device (30) synchronised with the rotary piston (20).

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**F01C 1/356**; **F04C 2/356**

IPC 8 full level  
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**F04C 2/3566** (2013.01 - EP US); **Y10S 417/90** (2013.01 - EP)

Cited by  
CN104265632A; DE102006048989A1; EP1914381A1; EP3115610A1; US10385850B2

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