

Title (en)
RING VALVE PUMP

Publication
EP 0266744 A3 19900117 (EN)

Application
EP 87116170 A 19871103

Priority
US 92666486 A 19861104

Abstract (en)
[origin: EP0266744A2] An eccentric ring porting system for hydraulic pumps of the type having a rotating cylinder block. The rotating cylinder block (46) has a flat annular port face (52) with a small cluster of regularly spaced cylinder ports (80) in the face circularly arrayed about the axis of rotation (32) of the cylinder block (46). A ring valve element (110) has a ring seat surface (120) held flush against the cylinder port face (52). The axis (36) of the ring seat surface (120) is eccentrically offset from the axis of rotation (32) of the cylinder block (46), and the cylinder ports (80) are uncovered inside of the inner edge of the ring seat surface (120) for output porting of the pump and outside of the outer edge of the ring seat surface (120) for inlet porting of the pump.

IPC 1-7
F04B 1/20

IPC 8 full level
F04B 1/20 (2006.01)

CPC (source: EP)
F04B 1/2042 (2013.01)

Citation (search report)
• [A] DE 3112930 A1 19821007 - VOEGELE AG J [DE]
• [A] DE 968539 C 19580227 - GUSSWERK PAUL SAALMANN & SOHN
• [A] AT 312424 B 19731227 - EICKMANN KARL [JP]
• [A] DE 3025593 A1 19820211 - BREINLICH RICHARD DR [DE]
• [A] AT 242517 B 19650927 - MANNESMANN MEER AG [DE]

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 0266744 A2 19880511; EP 0266744 A3 19900117; CN 1012273 B 19910403; CN 87101496 A 19880518; JP S63219883 A 19880913

DOCDB simple family (application)
EP 87116170 A 19871103; CN 87101496 A 19871104; JP 27901487 A 19871104