Title (en)
  Positive displacement pump.

Title (de)
  Verdrängerpumpe.

Title (fr)
  Pompe à déplacement positif.

Publication
  EP 0374115 A1 19900620 (EN)

Application
  EP 89850427 A 19891208

Priority
  • SE 8804448 A 19881208
  • US 35908589 A 19890530

Abstract (en)
  A positive displacement pump comprises a variable volume pump chamber (16-1) and a drive mechanism (26-1) having a displacement member (25-1) for reducing the volume of the pump chamber(16-1). Fluid enters the pump chamber (16-1) from a supply chamber (15-1) located adjacent to and surrounding the lateral outer boundary of the pump chamber (15-1) through a valve-controlled inlet passage (17-1) that opens to the pump chamber (16-1) at an elongated gap-like inlet opening. The inlet passage permits fluid to flow from the supply chamber (15-1) into the pump chamber (16-1) with substantially no pressure drop.

IPC 1-7
  F04B 43/02

IPC 8 full level
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CPC (source: EP)
  F04B 43/0027 (2013.01); F04B 43/082 (2013.01)

Citation (search report)
  DE 875142 C 19530430 - MESSERSCHMITT AG

Cited by
  AU2001282985B2; US5320504A; US5318414A; US5711655A; AU660619B2; US5441392A; US6866822B1; EP2386326A1; WO0213970A3

Designated contracting state (EPC)
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  EP 89850427 A 19891208; AR 31561089 A 19891205; AU 4591889 A 19891206; BR 8906367 A 19891208; CA 2004665 A 19891205; CN 89109219 A 19891208; CS 690089 A 19891206; DE 3939367 A 19891129; DE 68907576 T 19891208; DK 603489 A 19891129; ES 89850427 T 19891208; FI 895853 A 19891207; GB 8926719 A 19891127; HU 646389 A 19891207; IE 384389 A 19891130; IL 9257289 A 19891206; JP 31663889 A 19891207; MX 1850789 A 19891128; MY PI19891656 A 19891129; NO 894891 A 19891206; PL 28268289 A 19891208; PT 9251489 A 19891207; SU 4742562 A 19891207