

Title (en)
Improvements in mechanical pumps.

Title (de)
Verbesserungen an mechanischen Pumpen.

Title (fr)
Perfectionnements aux pompes mécaniques.

Publication
EP 0480629 A1 19920415 (EN)

Application
EP 91309065 A 19911003

Priority
GB 9021780 A 19901006

Abstract (en)
A mechanical vacuum pump comprising at least two stages with a pair of intermeshing rotors operating in a pumping chamber associated with each stage, the rotor of each pair being on respective shafts passing through the chamber and arranged for rotation in opposite angular directions, wherein the pump has a first body portion containing or having associated therewith support, control and drive means to drive the shafts synchronously in opposite directions with the shafts protruding from this first body portion into a second body portion in which the pumping chambers are situated. Preferably, the pump is designed for operation with the shafts vertically orientated. <IMAGE>

IPC 1-7
F04C 23/00

IPC 8 full level
F04C 18/18 (2006.01); **F04C 23/00** (2006.01); **F04C 25/02** (2006.01)

CPC (source: EP)
F04C 18/123 (2013.01); **F04C 23/001** (2013.01); **F04C 2220/12** (2013.01); **F04C 2240/51** (2013.01)

Citation (search report)

- [Y] GB 770475 A 19570320 - FRANK BERRY
- [Y] GB 2091344 A 19820728 - ITT FLUID HANDLING LTD
- [Y] US 3545888 A 19701208 - WYCLIFFE HENRYK, et al
- [A] US 4531535 A 19850730 - KIERNAN JAMES G [US], et al
- [A] DE 1243816 B 19670706 - LEYBOLDS NACHFOLGER E
- [A] US 3922117 A 19751125 - WEATHERSTON ROGER C
- [A] US-A-1 531 607

Cited by
CN109113998A; EP1020645A1; CN106662107A; CN116753167A; WO2021175680A1; WO2016034485A3; WO2005019652A1; WO2013114093A2

Designated contracting state (EPC)
CH FR GB IT LI

DOCDB simple family (publication)
EP 0480629 A1 19920415; GB 9021780 D0 19901121; JP H04259691 A 19920916

DOCDB simple family (application)
EP 91309065 A 19911003; GB 9021780 A 19901006; JP 25808991 A 19911004