

Title (en)
TWO STAGE LIQUID RING PUMP.

Title (de)
FLÜSSIGKEITS-RINGPUMPE MIT ZWEI STUFEN.

Title (fr)
POMPE A ANNEAU LIQUIDE A DEUX ETAGES.

Publication
EP 0033726 A1 19810819 (EN)

Application
EP 79901584 A 19810224

Priority
US 7900586 W 19790809

Abstract (en)
[origin: WO8100438A1] Discharge or unloading orifices (70), (71), (73), are provided in both stages (20), (48) of a two stage liquid ring pump to bleed seal liquid under various vacuum conditions and to render the pump immune to the effects of variations in rotor speed and in the delivery rate of seal liquid. The provision of the orifices (70), (71), (73), alleviates such performance problems as a high power requirement reduced first stage capacity and surging, i.e. unstable pumping action.

Abstract (fr)
Des orifices de decharge (70, 71, 73) sont amenes dans les deux etages (20, 48) d'une pompe a anneau liquide a deux etages pour purger le liquide d'etancheite sous differentes conditions d'aspiration et pour proteger la pompe contre les effets des variations de la vitesse de rotation et de la vitesse de debit du liquide d'etancheite. Les orifices (70, 71, 73) allegent les problemes de performance tels que le besoin important d'energie, une capacite reduite du premier etage et les a-coups, c'est-a-dire les problemes poses par un pompage stable.

IPC 1-7
F04C 19/00

IPC 8 full level
F04C 19/00 (2006.01)

CPC (source: EP)
F04C 19/004 (2013.01)

Cited by
DE19758340A1; US6551071B1

Designated contracting state (EPC)
DE GB SE

DOCDB simple family (publication)
WO 8100438 A1 19810219; BR 7909020 A 19810609; DE 2967131 D1 19840830; EP 0033726 A1 19810819; EP 0033726 A4 19810623; EP 0033726 B1 19840725

DOCDB simple family (application)
US 7900586 W 19790809; BR 7909020 A 19790809; DE 2967131 T 19790809; EP 79901584 A 19810224