Title (en)

Balanced pump with suction and delivery on the same axis

Title (de)

Ausgeglichene Pumpe mit auf derselben Achse liegenden Ein- und Auslasskanälen

Title (fr)

Pompe équilibrée avec aspiration et refoulement co-axiaux

Publication

EP 1092877 A2 20010418 (EN)

Application

EP 00203553 A 20001012

Priority

IT MI990626 U 19991015

Abstract (en)

A simple to disassemble balanced pump with suction and delivery on the same axis comprising a shell (12), containing an impeller (24) connected to which is a drive mechanism (16), the shell provided on one side with a suction port (19) and on the other side with a delivery port (20) located on the same axis, in which the shell (12) has a cover (18) that can be freely removed from below, the shell being designed raised on a part thereof open at the side, the impeller (24) also fitted with further wear rings (31, 54) facing outwards on radial surfaces that collaborate with other wear rings (32, 51) integral to the shell and/or lower cover (18); in said pump free perimetric ends of the lower wear rings (54, 51) are partially covered and enclosed by a shaped fixed ring (56, 57) that establishes a labyrinth passage for a pumped fluid. <IMAGE>

IPC 1-7

F04D 29/62; F04D 29/16; F04D 29/42

IPC 8 full level

F04D 29/04 (2006.01); **F04D 29/041** (2006.01); **F04D 29/16** (2006.01); **F04D 29/42** (2006.01)

CPC (source: EP)

F04D 29/0413 (2013.01); **F04D 29/0416** (2013.01); **F04D 29/167** (2013.01); **F04D 29/426** (2013.01); **F04D 29/628** (2013.01)

Cited by

FR2911166A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 1092877 A2 20010418; **EP 1092877 A3 20010516**; **EP 1092877 B1 20060308**; AT E319937 T1 20060315; DE 60026446 D1 20060504; DE 60026446 T2 20061109; IT MI990626 U1 20010415; IT MI990626 V0 19991015

DOCDB simple family (application)

EP 00203553 A 20001012; AT 00203553 T 20001012; DE 60026446 T 20001012; IT MI990626 U 19991015