

Title (en)

LIQUID RING PUMP WITH A LIQUID SEPARATOR INTEGRAL WITH THE SIDE COVER

Publication

EP 0392034 B1 19920812 (DE)

Application

EP 89106359 A 19890411

Priority

EP 89106359 A 19890411

Abstract (en)

[origin: EP0392034A1] The invention relates to a liquid ring pump with a liquid separator which is integrated in the side cover and which has a deflector wall (12) dividing the chamber in the side cover into two chambers, on which pump the pressure slit (6b) provided in the disc cam (7) opens out into one chamber (13), and a gas outlet (23; 25) and at least one liquid outlet (24, 24') are arranged in the area of the other chamber (14) on the side cover. An improved liquid separation with little flow loss is achieved in that the deflector wall (12) is designed with an arched shape and extends through an angle of at least 180 DEG, this wall bearing on the disc cam (7) with the side edge (16) of its one side (15) extending axially in the direction of the gas-liquid flow emerging from the pressure slit (6b). <IMAGE>

IPC 1-7

F04C 19/00

IPC 8 full level

F04C 19/00 (2006.01); **F04C 29/02** (2006.01)

CPC (source: EP US)

F04C 19/004 (2013.01 - EP US); **F04C 29/026** (2013.01 - EP US)

Cited by

DE19516994C1; DE202012005755U1; EP0759506A1

Designated contracting state (EPC)

AT DE FR GB IT NL SE

DOCDB simple family (publication)

EP 0392034 A1 19901017; **EP 0392034 B1 19920812**; AT E79445 T1 19920815; DE 58902050 D1 19920917; JP H0371188 U 19910718; JP H078863 Y2 19950306; US 5009782 A 19910423

DOCDB simple family (application)

EP 89106359 A 19890411; AT 89106359 T 19890411; DE 58902050 T 19890411; JP 3846790 U 19900409; US 50008590 A 19900327