

Title (en)

Multi-stage electric pump

Title (de)

Elektrisch angetriebene mehrstufige Pumpe

Title (fr)

Pompe électrique à plusieurs étages

Publication

EP 1431584 A2 20040623 (EN)

Application

EP 03380287 A 20031212

Priority

ES 200203032 U 20021218

Abstract (en)

Multi-stage electric pump (1), which comprises a multi-stage pump (2) coupled to an electric motor (3). The multi-stage pump (2) is essentially formed from a tubular body (4) which, at the end opposite that of the electric motor (3), is equipped with a water inlet (6) and a suction chamber (7) and, at the other end beside the electric motor (3), with a discharge chamber (8) and a water outlet (9), which is equipped with a pressure detector (10) and a non-return valve (11) equipped with a zero or minimum discharge detector (12). <IMAGE>

IPC 1-7

F04D 15/02

IPC 8 full level

F04D 1/06 (2006.01); **F04D 13/06** (2006.01); **F04D 15/02** (2006.01)

CPC (source: EP)

F04D 1/063 (2013.01); **F04D 13/06** (2013.01); **F04D 15/0209** (2013.01)

Cited by

CN114294236A; CN117967579A; US7946810B2; US9139985B2; US8172523B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1431584 A2 20040623; **EP 1431584 A3 20050727**; ES 1053407 U 20030401; ES 1053407 Y 20030716

DOCDB simple family (application)

EP 03380287 A 20031212; ES 200203032 U 20021218