

Title (en)
Venting system for submersible pump

Title (de)
Entlüftungsvorrichtung einer Tauchmotorpumpe

Title (fr)
Dispositif de dégazage d'une pompe immergée

Publication
EP 1384895 B1 20110504 (DE)

Application
EP 03014788 A 20030628

Priority
DE 10233281 A 20020723

Abstract (en)
[origin: EP1384895A2] The pump (1) is located in a sump pump and fastened by a holder (4) to an elbow pipe (7). The holder has an upward extending ventilation pipe (9), which has a back pressure element (10,12) to prevent entry of fluid from the pump sump into the pump. The holder also has an upward facing bore containing a floating conical closure part (10), which acts sealing with a seat formed by a constriction in the bore. A pipe connected to the bore merges into an elbow (11) with downward direction opening closed by a floating closure part (12). This is formed by a flap, fastened moveable to the elbow.

IPC 8 full level
F04D 29/60 (2006.01); **F04D 9/00** (2006.01)

CPC (source: EP)
F04D 9/001 (2013.01); **F04D 29/606** (2013.01)

Cited by
US10677243B2; WO2013135681A1

Designated contracting state (EPC)
DE FR IE SE

DOCDB simple family (publication)
EP 1384895 A2 20040128; EP 1384895 A3 20051130; EP 1384895 B1 20110504; DE 10233281 A1 20040205; DE 50313660 D1 20110616

DOCDB simple family (application)
EP 03014788 A 20030628; DE 10233281 A 20020723; DE 50313660 T 20030628