

Title (en)
Centrifugal pump

Title (de)
Kreispumpe

Title (fr)
Pompe centrifuge

Publication
EP 1729009 B1 20070711 (EN)

Application
EP 05425397 A 20050531

Priority
EP 05425397 A 20050531

Abstract (en)
[origin: EP1729009A1] A centrifugal pump comprises a containment body (2) with an infeed pipe (4) and an outfeed pipe (6); at least one intake stage (9) located in the containment body (2) between the pipes (4, 6), and having at least one impeller (10) for sucking a fluid from the infeed pipe (4) and conveying it towards the outfeed pipe (6); and impeller (10) drive means (7). The pump also has a safety valve (19) located in the containment body (2) and able to switch between an open condition in which it allows fluid to pass from the outfeed pipe (6) to the infeed pipe (4), and a closed condition in which it does not allow the passage of the fluid. The pump also comprises safety valve (19) locking means (26) for keeping the valve (19) in the closed position until the pressure of the fluid in the outfeed pipe (6) exceeds a predetermined pressure value P.

IPC 8 full level
F04D 15/00 (2006.01)

CPC (source: EP)
F04D 9/005 (2013.01); **F04D 15/0011** (2013.01)

Cited by
CN107448392A; US2012251308A1; CN102734176A; AU2012201654B2; US9879680B2; EP3929445A1; CN113898591A; EP4191065A1; US11746795B2; US11067086B2; EP2505842B1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR LV MK YU

DOCDB simple family (publication)
EP 1729009 A1 20061206; EP 1729009 B1 20070711; AT E366878 T1 20070815; DE 602005001620 D1 20070823

DOCDB simple family (application)
EP 05425397 A 20050531; AT 05425397 T 20050531; DE 602005001620 T 20050531