

Title (en)  
PUMP EQUIPPED WITH IMPROVED FLANGES

Title (de)  
PUMP MIT VERBESSERTEN FLANSCHEN

Title (fr)  
POMPE AVEC BRIDES AMÉLIORÉ

Publication  
**EP 3269984 A1 20180117 (EN)**

Application  
**EP 17177919 A 20170626**

Priority  
IT 201600072971 A 20160713

Abstract (en)  
The invention is a pump (1, 50) comprising: a pump body (2) in which there are a suction inlet (3) and a delivery outlet (4); a pumping unit (5) housed in the pump body (2) and configured to be connected to an electric motor (6) by means of a transmission shaft (7); a pair of flanges (8), one associated with the suction inlet (3) and one associated with the delivery outlet (4), each flange (8) comprising a flange body (10, 100) equipped with a front sealing surface (12) and a peripheral securing ring (14, 140) for connection to a corresponding counterflange. The securing ring (14, 140) is associated with the respective flange body (10, 100) by means of a threaded joint (16, 160) comprising a female thread (160a) which is located inside the securing ring (140) only for part (A1) of its thickness (A) and a male thread (160b) which is located outside the flange body (100) only for part (F1) of its thickness (F).

IPC 8 full level  
**F04D 29/42** (2006.01); **F04D 29/60** (2006.01)

CPC (source: EP)  
**F04D 29/4293** (2013.01); **F04D 29/605** (2013.01); **F05D 2250/50** (2013.01)

Citation (search report)  
• [A] EP 0566089 A1 19931020 - EBARA CORP [JP]  
• [A] EP 0566086 A1 19931020 - EBARA CORP [JP]  
• [AD] EP 0907029 A2 19990407 - GRUNDFOS AS [DK]  
• [A] DE 9310091 U1 19930923 - HARTLAGE GMBH & CO KG J [DE]

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3269984 A1 20180117**; **EP 3269984 B1 20190227**; ES 2727599 T3 20191017; IT 201600072971 A1 20180113

DOCDB simple family (application)  
**EP 17177919 A 20170626**; ES 17177919 T 20170626; IT 201600072971 A 20160713