

Title (en)  
PUMP PRIMING APPARATUS

Publication  
**EP 0495306 A3 19920916 (EN)**

Application  
**EP 91311605 A 19911211**

Priority  
• GB 9100986 A 19910116  
• GB 9123087 A 19911031

Abstract (en)  
[origin: EP0495306A2] Apparatus for priming a centrifugal pump (1) comprises a closed circuit connected to the casing of the pump and consisting of a priming pipe (12) connected to a vertical section (10) of an outlet pipe (4) from the pump downstream of a non-return valve (8) in the outlet and to the pump outlet upstream of the non-return valve (8). A valve (13) is provided in the priming pipe (12). A second part of the closed circuit consists of an air displacement pipe (14) which is connected to an upper part of the pump casing (1) and to the upper end of the outlet section (10). A non-return valve (17) is provided in the pipe (14) and a further valve (15) is provided in the pipe (14) adjacent the pump casing. The valves (13, 15) are closed during normal operation of the pump. When the pump is stopped, liquid is retained in the outlet pipe and in the priming pipe (12). The pump can be primed by opening the valves (13, 15). Liquid flows along the pipe (12) and into the pump casing (1) and air displaced from the casing can pass along the air-displacement pipe (14). In this manner the pump can be primed, i.e. filled with liquid, without recourse to secondary priming means. <IMAGE>

IPC 1-7  
**F04D 9/02**

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

CPC (source: EP)  
**F04D 9/006** (2013.01)

Citation (search report)  
• [X] US 3726618 A 19730410 - DICMAS J  
• [X] SU 1599585 A1 19901015 - DO POLITEKH INST [SU]  
• [X] GB 191505449 A 19160410 - PULSOMETER ENG CO, et al  
• [A] CH 174161 A 19341231 - HAENY & CIE E [CH]  
• [X] SOVIET INVENTIONS ILLUSTRATED, P,Q section, week 8749, January 27, 1988 DERWENT PUBLICATIONS LTD., London, Q 56

Cited by  
CN103498798A; EP0690234A3; US5682920A

Designated contracting state (EPC)  
DE FR IT

DOCDB simple family (publication)  
**EP 0495306 A2 19920722; EP 0495306 A3 19920916**

DOCDB simple family (application)  
**EP 91311605 A 19911211**