

Title (en)
IMPROVED HYDRAULIC PUMP

Title (de)
VERBESSERTE HYDRAULIKPUMPE

Title (fr)
POMPE HYDRAULIQUE AMÉLIORÉE

Publication
EP 2194832 B1 20121128 (EN)

Application
EP 08786999 A 20080807

Priority
• EP 2008060403 W 20080807
• IT PN20070068 A 20070925

Abstract (en)
[origin: WO2009040176A1] The purpose of the present invention is to provide a pump, in particular of the kind intended for use in household appliances, having a reduced initial friction resistance so as to enable motors with a lower power rating, and hence cheaper to manufacture, to be used to drive such pump. This aim is reached in a pump that has a hollow inner chamber, which accommodates an impeller (2) therein, and further comprises an electric rotor along with a related externally threaded rotation shaft (4), on which there is mounted a centrifugal splash-guard member (5), a rear wall (6) closing said inner chamber, a ring (7) provided concentrically relative to said rear wall, a corresponding cylindrical member (8) firmly joined to and coaxial with said impeller (2), said cylindrical member being adapted to slide in a tightly sealing manner against said ring, a connection fitting connecting said cylindrical member to the impeller, a hollow internally threaded tail piece (9), which is firmly joined to the impeller (2) and adapted to be screwed on such fitting; the splash-guard member (5) is provided with a cavity (5A) that is open towards said tail piece and has a step-like configuration provided therein, the diameter of which is smaller than the inside fit-in diameter of said cavity, and said tail piece (9) has an outside diameter allowing it to be inserted in the inside fit-in diameter of said cavity (5A).

IPC 8 full level
A47L 15/42 (2006.01); **D06F 39/08** (2006.01)

CPC (source: EP US)
A47L 15/4225 (2013.01 - EP US); **D06F 39/085** (2013.01 - EP US)

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

DOCDB simple family (publication)
WO 2009040176 A1 20090402; EP 2194832 A1 20100616; EP 2194832 B1 20121128; IT PN20070068 A1 20090326

DOCDB simple family (application)
EP 2008060403 W 20080807; EP 08786999 A 20080807; IT PN20070068 A 20070925