

Title (en)
DEVICE FOR PUMPING LIQUID, AND APPARATUS FITTED WITH SUCH A DEVICE

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EP 0076739 B1 19850605 (FR)

Application
EP 82401757 A 19820928

Priority
FR 8118640 A 19811002

Abstract (en)
[origin: EP0076739A1] 1. An apparatus for pumping liquids, comprising at least a centrifugal pump (9) including an impeller (15) having radial blades axially delimited by an end flange, said impeller being driven by a bidirectional motor (12), and including an air supply duct (18) in communication with the interior of the housing of said pump, characterised in that the impeller (15) carries main blades (21) which are radially oriented in a predetermined sense and axially delimited by at least one end flange (22, 23) and adapted to deliver the liquid upon rotation of the motor (12) in a predetermined sense, and the impeller is provided with auxiliary blades (24) which are formed on the outer surface of said flange (22) and are radially oriented in a sense opposite to that of the main blades (21) and adapted to supply air about the entire periphery of said impeller (15) to thereby rapidly drain the pump upon rotation of the motor (12) in an opposite direction, and characterised in that the air supply duct (18) is coaxial with the impeller (15) and has a first end which is in communication with the interior of the housing (14) of the pump (9) and is disposed on the side of the auxiliary blades (24) of the impeller (15), and has a second end (19) which extends upwardly beyond the maximum level of the pumped liquid and is open to the air.

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Cited by
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