

Title (en)
SELF-PRIMING CENTRIFUGAL PUMP

Title (de)
SELBSTENTLÜFTENDE ZENTRIFUGALPUMPE

Title (fr)
POMPE CENTRIFUGE AUTO-AMORÇANTE

Publication
EP 3850219 A1 20210721 (EN)

Application
EP 19765816 A 20190718

Priority
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• IT 2019050168 W 20190718

Abstract (en)
[origin: WO2020053906A1] The self-priming centrifugal pump comprises a pump body (10) having an inner cavity (11) having a longitudinal axis (A) arranged in a horizontal position in use configuration which divides said inner cavity (11) into an upper zone (S) and a lower zone (I); a suction opening (12) made on a front surface (13) of said pump body (10) at said upper zone (S); a pumping chamber (20) associated with said pump body (10) and having at a frontal part thereof an axial inlet opening (21); an impeller group (22) arranged inside said pumping chamber (20); an ejector group (30) which extends into said inner cavity (11) of the pump body (10) and comprises an ejection nozzle (31) and an suction conduit (32) shaping a divergent profile, connected, at the wider section thereof to the inlet opening (21) of the pumping chamber (20); an auxiliary suction conduit (34) arranged inside said inner cavity (11) of the pump body (10), at said upper zone (S), and adapted to put said suction opening (12) in direct communication with said inlet opening (21) of the pumping chamber (20).

IPC 8 full level
F04D 9/06 (2006.01); **F04D 15/00** (2006.01)

CPC (source: EP)
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