

Title (en)
Fluid Guide

Title (de)
Fluidleitvorrichtung

Title (fr)
Dispositif de guidage de fluide

Publication
EP 1898100 A1 20080312 (EN)

Application
EP 06119175 A 20060818

Priority
EP 06119175 A 20060818

Abstract (en)
A fluid guide (1) comprising a swirl pipe (3) defining an axis, a first end (12) with a first cross-sectional area, and a second end (13) in communication with a pump inlet (16). The first end (12) of the swirl pipe is in communication with at least one funnel-shaped guiding means (4) having an exterior wall, said funnel-shaped guiding means (4) serves for guiding the fluid into the swirl pipe (3). The funnel-shaped guiding means (4) has an inlet opening (14) communicating with an outlet opening (15) through a funnel body (5) and said outlet opening (15) communicates with the first end of the swirl pipe (12). The cross-sectional area of the inlet opening (14) of funnel-shaped guiding means is larger than the cross-sectional area of the outlet-opening (15) of the funnel-shaped guiding means, and the total cross-sectional areas of the outlet openings (15) of the funnel-shaped guiding means is substantially equal to the cross-sectional area of the first end (12) of the swirl pipe. The funnel-shaped guiding means (4) ensures that the velocity of the fluid is effectively raised while being led from a reservoir to a swirl pipe (3). Having the increased velocity and achieving an angular velocity in the swirl pipe (3), the fluid gets in contact with the impeller in a more smooth way. The general tear and wear of the impeller is lowered because the risk of turbulence is lowered.

IPC 8 full level
F04D 29/54 (2006.01); **F04D 29/44** (2006.01); **F04D 29/70** (2006.01)

CPC (source: EP)
F04D 29/445 (2013.01); **F04D 29/548** (2013.01); **F04D 29/708** (2013.01); **F05D 2250/51** (2013.01)

Citation (search report)

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