

Title (en)

Improvement in a hydraulic centrifugal turbine pump

Title (de)

Verbesserung bei einer hydraulischen Turbinenkreislumppe

Title (fr)

Amélioration d'une pompe à turbine de centrifugeuse hydraulique

Publication

EP 1860324 A3 20080305 (EN)

Application

EP 07107420 A 20070503

Priority

IT PN20060019 U 20060524

Abstract (en)

[origin: EP1860324A2] Centrifugal turbine pump comprising an intake conduit, a delivery conduit, a pumping chamber, an impeller housed in the pumping chamber and provided with a plurality of vanes, wherein said delivery conduit comprises a transition region extending from the inflow section to the discharge or outflow section thereof, wherein the cross-section area of said delivery conduit increases along such transition region in a gradual, continuous manner. The curve that represents the cross-section area of said transition region does not show any cusp point. In addition, the portion of the pumping chamber that houses the impeller is formed integrally, i.e. as a single-piece, unitary construction with said delivery conduit and the related transition region.

IPC 8 full level

F04D 29/42 (2006.01); **F04D 29/44** (2006.01)

CPC (source: EP)

F04D 29/426 (2013.01); **F04D 29/445** (2013.01)

Citation (search report)

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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1860324 A2 20071128; EP 1860324 A3 20080305; EP 1860324 B1 20090729; AT E438038 T1 20090815; DE 602007001718 D1 20090910; ES 2329186 T3 20091123; IT PN20060019 U1 20071125; PL 1860324 T3 20091231

DOCDB simple family (application)

EP 07107420 A 20070503; AT 07107420 T 20070503; DE 602007001718 T 20070503; ES 07107420 T 20070503; IT PN20060019 U 20060524; PL 07107420 T 20070503