

Title (en)  
NON-CHOKABLE PUMP

Title (de)  
FREISTROMPUMPE

Title (fr)  
POMPE NON COLMATABLE

Publication  
**EP 1616100 B1 20100210 (DE)**

Application  
**EP 03789237 A 20031212**

Priority  
• EP 0314108 W 20031212  
• DE 10301630 A 20030117

Abstract (en)  
[origin: WO2004065797A1] The invention relates to a non-chokable pump whose impeller (2), which is comprised of a supporting disc (6) fitted with open blades (7; 8), maintains a distance from the casing wall (12) situated opposite thereto on the suction side. This distance is such that from the inlet (11) of the non-chokable pump to the impeller outlet between the impeller (2) and the casing wall (12), a passage is maintained that enables the free transit of a spherical object of a certain size contained in the liquid to be pumped. The aim of the invention is to create a non-chokable pump, which achieves an increase in efficiency while fulfilling the delivery according to a free transit for a ball of a predetermined size. To this end, the invention provides that the passage, which enables the free transit of the spherical object, extends from the inlet (11) to the impeller exit through the blading of the impeller (2) with a minimum dimension (M) that corresponds to the desired ball transit.

IPC 8 full level  
**F04D 29/22** (2006.01)

CPC (source: EP)  
**F04D 29/2244** (2013.01)

Cited by  
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DE102016225891A1; US11187232B2; DE102016225908A1; WO2018114133A1; US11168695B2

Designated contracting state (EPC)  
DE FR IE SE

DOCDB simple family (publication)  
**WO 2004065797 A1 20040805**; AR 042894 A1 20050706; AU 2003293852 A1 20040813; DE 10301630 A1 20040729;  
DE 50312416 D1 20100325; EP 1616100 A1 20060118; EP 1616100 B1 20100210

DOCDB simple family (application)  
**EP 0314108 W 20031212**; AR P040100114 A 20040116; AU 2003293852 A 20031212; DE 10301630 A 20030117; DE 50312416 T 20031212;  
EP 03789237 A 20031212