

Title (en)  
JET PUMP

Title (de)  
STRAHLPUMPE

Title (fr)  
POMPE À JET

Publication  
**EP 3953588 A1 20220216 (DE)**

Application  
**EP 20719576 A 20200330**

Priority  

- DE 102019109195 A 20190408
- EP 2020058994 W 20200330

Abstract (en)  
[origin: WO2020207847A1] The invention relates to a jet pump (10) comprising a jet nozzle (14) for accelerating a propellant, wherein the jet nozzle (14) has a convergent inlet part (28) and an outlet part (26) connected to the convergent inlet part (28), wherein the outlet (26) comprises an inner wall (38) diverging at an opening angle (16), wherein, according to the invention, the opening angle (16) is designed such that a propellant flowing through the outlet part (26) at subsonic speed is detached from the inner wall (38) and a propellant flowing through the outlet part (26) at supersonic speed is guided by the inner wall (38). The invention thus provides an automatic, cost-effective and simple changeover of the jet pump (10) to different pressure ratios.

IPC 8 full level  
**F04F 5/02** (2006.01); **F04F 5/10** (2006.01); **F04F 5/14** (2006.01); **F04F 5/46** (2006.01)

CPC (source: EP KR US)  
**F04F 5/02** (2013.01 - EP KR); **F04F 5/10** (2013.01 - EP); **F04F 5/14** (2013.01 - EP KR); **F04F 5/44** (2013.01 - EP); **F04F 5/46** (2013.01 - EP KR);  
**F04F 5/464** (2013.01 - EP); **F04F 5/465** (2013.01 - US); **F04F 5/54** (2013.01 - EP KR)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**DE 102019109195 A1 20201008**; CN 113614386 A 20211105; CN 113614386 B 20240123; EP 3953588 A1 20220216;  
EP 3953588 B1 20231206; JP 2022526627 A 20220525; JP 7472165 B2 20240422; KR 102649754 B1 20240320; KR 20210139453 A 20211122;  
MX 2021011742 A 20211022; US 11905978 B2 20240220; US 2022213904 A1 20220707; WO 2020207847 A1 20201015

DOCDB simple family (application)  
**DE 102019109195 A 20190408**; CN 202080024006 A 20200330; EP 2020058994 W 20200330; EP 20719576 A 20200330;  
JP 2021559445 A 20200330; KR 20217034865 A 20200330; MX 2021011742 A 20200330; US 202017602442 A 20200330