

Title (en)  
HELICO-AXIAL SUBMERSIBLE PUMP

Title (de)  
HELIKOAXIALE TAUCHPUMPE

Title (fr)  
POMPE SUBMERSIBLE HÉLICO-AXIALE

Publication  
**EP 3844368 A1 20210707 (EN)**

Application  
**EP 19765911 A 20190827**

Priority  
• US 201816115159 A 20180828  
• US 2019048327 W 20190827

Abstract (en)  
[origin: US2020072226A1] An electrical submersible pump (ESP) having a helico-axial centrifugal pump to lift fluid from a wellbore, and a submersible permanent magnet motor (PMM) to drive the helico-axial centrifugal pump.

IPC 8 full level  
**E21B 43/12** (2006.01)

CPC (source: EP US)  
**E21B 43/128** (2013.01 - EP US); **F04D 1/04** (2013.01 - EP); **F04D 13/086** (2013.01 - US); **F04D 13/10** (2013.01 - EP); **F04D 31/00** (2013.01 - EP US); **F04B 47/08** (2013.01 - US)

Citation (search report)  
See references of WO 2020046922A1

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)  
**US 2020072226 A1 20200305**; EP 3844368 A1 20210707; WO 2020046922 A1 20200305

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**US 201816115159 A 20180828**; EP 19765911 A 20190827; US 2019048327 W 20190827