

Title (en)  
Cutting assembly pump

Title (de)  
Schneidwerkspumpe

Title (fr)  
Pompe pour barre de coupe

Publication  
**EP 2535589 A3 20180321 (DE)**

Application  
**EP 12168833 A 20120522**

Priority  
DE 102011077544 A 20110615

Abstract (en)  
[origin: EP2535589A2] The centrifugal pump is provided with a pump impeller (2) disposed in a housing (1), where a cutting unit (7) having a cutting surface (8) and a rotating cutting body (9) is arranged prior to the inflow of the medium in an impeller wheel (3). The cutting surface and the cutting body are clamped each other with a force (F) axially in the direction of the rotational axis of the cutting body. The force is generated due to the rotation of the pump impeller.

IPC 8 full level  
**F04D 7/04** (2006.01); **B01F 25/64** (2022.01); **F04D 29/22** (2006.01)

CPC (source: EP)  
**B02C 18/0092** (2013.01); **F04D 7/045** (2013.01); **F04D 29/2288** (2013.01)

Citation (search report)

- [X] CA 2030881 A1 19910628 - GEN SIGNAL CORP [US]
- [X] US 4143993 A 19790313 - BLUM ALBERT
- [A] DE 2918228 A1 19801113 - REUSCH DIETER
- [A] WO 2007067532 A2 20070614 - LITTLE GIANT PUMP COMPANY [US], et al

Cited by  
CH717149A1; RU2661918C2; US11655821B2; US11560894B2; US11161121B2; US9828999B2; WO2015022601A1

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)  
**EP 2535589 A2 20121219; EP 2535589 A3 20180321; EP 2535589 B1 20190911**; CN 102913473 A 20130206; CN 102913473 B 20160210; DE 102011077544 A1 20121220; DK 2535589 T3 20191216; HU E046949 T2 20200330

DOCDB simple family (application)  
**EP 12168833 A 20120522**; CN 201210198081 A 20120615; DE 102011077544 A 20110615; DK 12168833 T 20120522; HU E12168833 A 20120522