

Title (en)  
Pump housing

Title (de)  
Pumpengehäuse mit Verbindungsstegen

Title (fr)  
Boîtier de pompe

Publication  
**EP 1178216 A3 20040102 (DE)**

Application  
**EP 01118971 A 20010806**

Priority  
DE 10038833 A 20000804

Abstract (en)  
[origin: EP1178216A2] The plastic pump casing has at least one connecting pin (10a,10b) located in the inlet area (9). The pins extend between the axially opposite casing walls (12,13) and are fastened to both these walls. The connecting pins may be cast on the casing walls on one or both sides. The pump casing consists of two axially lying halves (2,3) with the connecting pins formed in one piece on one of the halves. The connecting pins may be welded onto the other casing half.

IPC 1-7  
**F04D 29/42**; **F04D 29/02**

IPC 8 full level  
**F04D 29/02** (2006.01); **F04D 29/42** (2006.01)

CPC (source: EP)  
**F04D 29/026** (2013.01); **F04D 29/426** (2013.01); **F05D 2230/64** (2013.01); **F05D 2300/43** (2013.01)

Citation (search report)

- [X] US 6095771 A 20000801 - SCHELHAS PETER [DE], et al
- [X] US 4052133 A 19771004 - YEATER TOMMY W
- [A] DE 29708610 U1 19970710 - WINTER GMBH [DE]
- [A] PATENT ABSTRACTS OF JAPAN vol. 010, no. 191 (M - 495) 4 July 1986 (1986-07-04)

Cited by  
CN106555780A; ITUB20153948A1; US10859086B2

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**EP 1178216 A2 20020206**; **EP 1178216 A3 20040102**; **EP 1178216 B1 20051012**; DE 10038833 A1 20020214; DE 50107665 D1 20060223

DOCDB simple family (application)  
**EP 01118971 A 20010806**; DE 10038833 A 20000804; DE 50107665 T 20010806