

Title (en)  
Plastic housing with metal suds

Title (de)  
Kunststoffgehäuse mit Metallstutzen

Title (fr)  
Boitier en plastique avec bandes metalliques

Publication  
**EP 1193397 A3 20020904 (DE)**

Application  
**EP 01119802 A 20010816**

Priority  
DE 10048758 A 20000929

Abstract (en)  
[origin: EP1193397A2] The pump housing which is made from plastics has an inlet pipe and outlet pipe and covers a pump chamber at the end. At least one of the pipes has a metal connector (2) so that it can be connected onto a pipeline. The connector has a connecting sleeve (6) which fits round the plastics pipe of the housing. The sleeve can have external thread so that the pipe line can be screwed onto same.

IPC 1-7  
**F04D 13/02**; **F04D 29/62**; **F04D 29/42**; **F16L 47/00**

IPC 8 full level  
**F04D 29/40** (2006.01); **F04D 29/42** (2006.01)

CPC (source: EP)  
**F04D 29/026** (2013.01); **F04D 29/406** (2013.01); **F04D 29/4293** (2013.01); **F05D 2300/10** (2013.01); **F05D 2300/43** (2013.01)

Citation (search report)

- [Y] EP 0919727 A1 19990602 - WILO GMBH [DE]
- [Y] US 4146059 A 19790327 - HEILMANN ROLAND
- [A] DE 3011888 A1 19811001 - HALM RICHARD
- [A] US 3614137 A 19711019 - JACOBSON IRVIN D
- [Y] US 2850064 A 19580902 - RAPATA GEORGE M
- [Y] GB 2194833 A 19880316 - AUTOMOTIVE PRODUCTS PLC
- [Y] BUSE F W: "NON-METALLIC PUMPS", WORLD PUMPS, TRADE AND TECHNICAL PRESS LTD. MORDEN, GB, no. 5, 1 May 1989 (1989-05-01), pages 142 - 145, XP000084075, ISSN: 0262-1762

Cited by  
US11788554B2; WO2021042720A1

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 1193397 A2 20020403**; **EP 1193397 A3 20020904**; **EP 1193397 B1 20080604**; DE 10048758 A1 20020411; DE 50114007 D1 20080717

DOCDB simple family (application)  
**EP 01119802 A 20010816**; DE 10048758 A 20000929; DE 50114007 T 20010816