

Title (en)  
DISPLACEMENT PUMP

Title (de)  
VERDRÄNGERPUMPE

Title (fr)  
POMPE VOLUMETRIQUE

Publication  
**EP 1420933 A1 20040526 (FR)**

Application  
**EP 02764840 A 20020809**

Priority  
• EP 0208969 W 20020809  
• FR 0110880 A 20010816

Abstract (en)  
[origin: WO03016024A1] The invention relates to a displacement pump which is intended, in particular, for rubber mixtures. The inventive pump comprises boost means which drive the material towards a housing (11). Said housing opens into an outlet port (17) and contains two counter-rotating screws (24, 34) which engage with one another by means of the respective helicoidal threads thereof. The axial length of the intermeshing area of said screws (24, 34) is greater than or equal to the sum of the pitch of the threads and the pitch multiplied by the number of threads on each screw multiplied by 2.

IPC 1-7  
**B29C 47/40**; **B29C 47/50**

IPC 8 full level  
**B29C 47/40** (2006.01); **B29C 47/50** (2006.01); **B29C 48/38** (2019.01); **B29C 48/395** (2019.01); **B29C 48/03** (2019.01); **B29K 21/00** (2006.01)

CPC (source: EP US)  
**B29B 7/489** (2013.01 - EP); **B29B 7/7495** (2013.01 - EP); **B29C 48/38** (2019.01 - EP US); **B29C 48/395** (2019.01 - EP US); **B29C 48/402** (2019.01 - EP US); **B29C 48/03** (2019.01 - EP US)

Citation (search report)  
See references of WO 03016024A1

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

DOCDB simple family (publication)  
**WO 03016024 A1 20030227**; CN 1543395 A 20041103; EP 1420933 A1 20040526; JP 2004538182 A 20041224; US 2004161356 A1 20040819

DOCDB simple family (application)  
**EP 0208969 W 20020809**; CN 02815983 A 20020809; EP 02764840 A 20020809; JP 2003520560 A 20020809; US 77820804 A 20040217