

Title (en)
MAGNETIC SHIELD FOR A VACUUM PUMP

Title (de)
MAGNETISCHE ABSCHIRMUNG FÜR EINE VAKUUMPUMPE

Title (fr)
BLINDAGE MAGNÉTIQUE POUR UNE POMPE À VIDE

Publication
EP 3728857 A1 20201028 (EN)

Application
EP 18829445 A 20181219

Priority
• GB 201721771 A 20171222
• GB 2018053685 W 20181219

Abstract (en)
[origin: GB2569648A] A magnetic shield 2 for a vacuum pump 1, which encloses a portion of the pump such that external magnetic fields do not have an effect on the pump within the shield. There will be a longitudinally extending circumferential channel between the shield and the pump, and there should be a pump envelope 3 arranged around the rotor cavity and inside the magnetic shield. The channel between the pump and the shield may have cooling fluid pumped through it. The shield may be made of mild steel. An independent claim is made to a method of manufacturing the magnetic shield. The pump may be a turbomolecular pump.

IPC 8 full level
F04D 19/04 (2006.01); **F04D 29/02** (2006.01); **F04D 29/52** (2006.01); **F04D 29/60** (2006.01)

CPC (source: EP GB)
F04D 19/04 (2013.01 - EP); **F04D 19/042** (2013.01 - EP); **F04D 29/023** (2013.01 - EP); **F04D 29/40** (2013.01 - GB); **F04D 29/522** (2013.01 - EP); **F04D 29/601** (2013.01 - EP); **F05D 2300/507** (2013.01 - EP)

Citation (search report)
See references of WO 2019122869A1

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)
GB 201721771 D0 20180207; **GB 2569648 A 20190626**; EP 3728857 A1 20201028; JP 2021507174 A 20210222; JP 7305646 B2 20230710; WO 2019122869 A1 20190627

DOCDB simple family (application)
GB 201721771 A 20171222; EP 18829445 A 20181219; GB 2018053685 W 20181219; JP 2020534181 A 20181219