

Title (en)  
Improved monovane vacuum pump

Title (de)  
Verbesserte Einschaufelvakuumpumpe

Title (fr)  
Pompe à vide à aube unique améliorée

Publication  
**EP 2249040 A2 20101110 (EN)**

Application  
**EP 10160464 A 20100420**

Priority  
GB 0907606 A 20090501

Abstract (en)  
A vacuum pump (10) for use in automotive applications having a casing (12) defining a chamber (14), a rotor (26) rotatably mounted within the chamber (14) and a vane (40) slidably mounted in a slot (32) on the rotor (26). The vane (40) is formed from a single piece of material having a planar centre portion (42) and curved ends (44) where the curved ends (44) are turned towards one another. Each curved end (44) has a contact portion which contacts the chamber wall (18), the contact portion being intermediate the centre portion (42) and the tip of said single piece of material distal to the centre portion (42).

IPC 8 full level  
**F04C 18/344** (2006.01)

CPC (source: EP)  
**F01C 21/0809** (2013.01); **F04C 18/3441** (2013.01); **F04C 2220/10** (2013.01)

Cited by  
CN108883684A; EP2987951A1; CN106536855A; US9803642B2; WO2016026556A1; US10837283B2

Designated contracting state (EPC)  
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 SE SI SK SM TR

Designated extension state (EPC)  
AL BA ME RS

DOCDB simple family (publication)  
**EP 2249040 A2 20101110; EP 2249040 A3 20130710; EP 2249040 B1 20150107**; CN 201827077 U 20110511; GB 0907606 D0 20090610

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**EP 10160464 A 20100420**; CN 201020186157 U 20100430; GB 0907606 A 20090501