

Title (en)
VORTEX FINDER FOR A CYCLONIC SEPARATOR

Title (de)
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Title (fr)
TUBE PLONGEUR POUR SÉPARATEUR CYCLONIQUE

Publication
EP 3698698 A1 20200826 (EN)

Application
EP 19158400 A 20190220

Priority
EP 19158400 A 20190220

Abstract (en)
A vortex finder (F) for a cyclonic separator, the vortex finder comprising a plurality of stationary vanes (V) having a round convex front end around which incoming air (A) is guided into the vortex finder (F), a cross-section of the vanes (V) having only one sharp edge (E) where air separates from the vane (V) inside of the vortex finder (F). Preferably, a mean line (M) of the cross-section of the vanes (V) does not cross a chord line (C) in an upstream half of the cross-section. A vacuum cleaner comprising a cyclonic separator preferably has such a vortex finder (F).

IPC 8 full level
A47L 9/16 (2006.01); **B04C 5/13** (2006.01)

CPC (source: EP)
A47L 9/1658 (2013.01); **B04C 5/13** (2013.01)

Citation (applicant)
• US 2012167336 A1 20120705 - TRAN PHONG H [US], et al
• WO 2015150435 A1 20151008 - KONINKL PHILIPS NV [NL]

Citation (search report)
• [A] WO 2015150435 A1 20151008 - KONINKL PHILIPS NV [NL]
• [A] EP 2044996 A1 20090408 - JAPAN COOPERATION CT PETROLEUM [JP], et al
• [A] US 2006037294 A1 20060223 - OH JANG-KEUN [KR], et al

Cited by
EP3847938A1; WO2021140041A1

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)
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