

Title (en)
LOCAL EXHAUST APPARATUS

Title (de)
LOKALE AUSLASSVORRICHTUNG

Title (fr)
APPAREIL D'ÉVACUATION LOCALISÉE

Publication
EP 2402673 A4 20130731 (EN)

Application
EP 09840868 A 20090826

Priority
• KR 2009004762 W 20090826
• KR 20090015487 A 20090224
• KR 20090072886 A 20090807

Abstract (en)
[origin: EP2402673A1] A local exhaust system includes a motor provided in an exhaust pipe to generate a rotary drive force when power is applied thereto, in which air is taken in through an intake port and exhausted through the exhaust pipe, a rotor structure disposed on the leading end of the intake port and connected to a drive shaft of the motor, the rotor structure rotating about a central portion of the exhaust pipe, and a plurality of turbulence-generating outer blades for generating a turbulent flow when rotated. Each of the turbulence-generating outer blades is assembled to the outer surface of the rotor structure via an angle-adjusting member in such a fashion that the angle of the turbulence-generating outer blade is adjustable with respect to the direction in which air is taken in through the intake port.

IPC 8 full level
F24F 13/06 (2006.01); **F24F 13/08** (2006.01)

CPC (source: EP KR US)
F24C 15/20 (2013.01 - EP); **F24F 13/06** (2013.01 - EP KR US); **F24F 13/08** (2013.01 - KR); **F24F 2013/1433** (2013.01 - EP US)

Citation (search report)
• [X1] US 4955286 A 19900911 - MUELLER GOTTFRIED [DE], et al
• [X1] WO 2008069740 A1 20080612 - SCANIA CV ABP [SE], et al
• [I] US 4665806 A 19870519 - MARTIN SR LENDELL [US]
• [A] US 2006025066 A1 20060202 - DOLAN ROBERT P [US], et al
• [A] DE 202004006360 U1 20040715 - TROX GMBH GEB [DE]
• See references of WO 2010098522A1

Cited by
EP2839217A1

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

DOCDB simple family (publication)
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EP 09840868 A 20090826; BR PI0922898 A 20090826; CN 200980108551 A 20090826; JP 2011544352 A 20090826; KR 2009004762 W 20090826; KR 20090072886 A 20090807; US 200913202928 A 20090826