

Title (en)

AIR INTAKE DEVICE FOR AN EXTRACTOR HOOD

Title (de)

LUFTANSAUGVORRICHTUNG FÜR EINE DUNSTABZUGSHAUBE

Title (fr)

DISPOSITIF D'ASPIRATION D'AIR POUR UNE HOTTE ASPIRANTE

Publication

EP 3368773 A1 20180905 (DE)

Application

EP 16775148 A 20160926

Priority

- DE 102015218612 A 20150928
- EP 2016072802 W 20160926

Abstract (en)

[origin: WO2017055199A1] The air intake device (12) for an extractor hood (10) has a fan housing (14) with air inlet opening (16) and air outlet opening (17). A fan wheel (30) is connected by latching to the motor shaft (28) of a motor (26). During rotation of the motor shaft (28), the fan wheel (30) is turned too with the aid of a rotary driving mechanism (66). A latch connection mechanism (36) for the latching connection of fan wheel (30) and motor shaft (28) is provided with at least one spring-loaded latch projection (68) on either the outer circumferential surface (29) of the motor shaft (28) or on the inner circumferential surface (50) of the receiving seat (46) of the fan wheel (30), and with a peripheral engagement projection (76) which is provided to be engaged behind by the at least one latch projection (68) and is located on either the inner circumferential surface (50) of the receiving seat (46) of the fan wheel (30) or on the outer circumferential surface (29) of the motor shaft (28). The rotary driving mechanism (66) has a carrier projection (60) which is arranged either on the motor shaft (28) or in the receiving seat (46) of the fan wheel (30), and a free-wheeling path (62) which extends along a reference line for the carrier projection (60) and which is formed either in the receiving seat (46) of the fan wheel (30) or on the motor shaft (28) and along which the carrier projection (60) is movable when the fan wheel (30) is plugged onto the motor shaft (28) and during a relative rotational movement of motor shaft (28) and fan wheel (30). The free-wheeling path (62) has a movement-limiting surface (64) for contact by the carrier projection (60) and thus for carrying the fan wheel (30) by the rotatable motor shaft (28).

IPC 8 full level

F04D 25/02 (2006.01); **F04D 29/26** (2006.01); **F24C 15/20** (2006.01)

CPC (source: EP)

F04D 25/02 (2013.01); **F04D 29/263** (2013.01); **F24C 15/20** (2013.01)

Citation (search report)

See references of WO 2017055199A1

Cited by

GB2605574A

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)

DE 102015218612 B3 20161201; CN 108138790 A 20180608; CN 108138790 B 20200310; EP 3368773 A1 20180905; EP 3368773 B1 20190501; ES 2736400 T3 20191230; PL 3368773 T3 20191031; TR 201908847 T4 20190722; WO 2017055199 A1 20170406

DOCDB simple family (application)

DE 102015218612 A 20150928; CN 201680056715 A 20160926; EP 16775148 A 20160926; EP 2016072802 W 20160926; ES 16775148 T 20160926; PL 16775148 T 20160926; TR 201908847 T 20160926