

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

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CPC (source: EP)

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