

Title (en)

A low-noise fume extractor hood.

Title (de)

Dampfabzugshaube mit geringer Geräuschentwicklung

Title (fr)

Hotte de captation des fumées à faible bruit

Publication

**EP 2594853 B1 20170118 (EN)**

Application

**EP 12192948 A 20121116**

Priority

IT AN20110156 A 20111121

Abstract (en)

[origin: EP2594853A1] A fume extractor hood (1) is disclosed, comprising a box (2) with a motor-fan assembly and a muffler module (4) comprising a bearing frame defining an air extraction conduit (C) with axis (A), an active noise suppression system comprising at least one electro-acoustic transducer (5) and at least two microphones (6, 7), a passive noise suppression system comprising a sound absorbent material (49). Said muffler module (4) comprises at least two electro-acoustic transducers (5) connected to the walls (40) of said bearing frame, in opposite positions, in such manner to leave the central part of said conduit (C) free. The sound beams coming from said at least two electro-acoustic transducers (5) are mutually combined, obtaining a resulting sound beam that can be directed towards a preferred direction by means of beam forming algorithms.

IPC 8 full level

**F24C 15/20** (2006.01); **B08B 15/02** (2006.01); **G10K 11/178** (2006.01)

CPC (source: EP US)

**B08B 15/02** (2013.01 - EP); **F24C 15/20** (2013.01 - EP US); **G10K 11/17857** (2017.12 - EP US); **G10K 11/17861** (2017.12 - EP US); **G10K 11/17881** (2017.12 - EP US); **G10K 2210/105** (2013.01 - EP); **G10K 2210/111** (2013.01 - EP); **G10K 2210/1291** (2013.01 - EP)

Cited by

WO2018141839A1; CN105737228A; EP3078916A3; CN107939481A; CN107166458A; GB2582372A; CN111726718A; GB2582372B; CN103994485A; JP2016061535A; CN108954440A; CN110701648A; WO2016047070A1; US11423873B2; US12014715B2; TWI645116B

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