

Title (en)  
VENTILATION DEVICE FOR HOUSEHOLD APPLIANCES

Title (de)  
BELÜFTUNGSVORRICHTUNG FÜR HAUSHALTSGERÄTE

Title (fr)  
DISPOSITIF DE VENTILATION POUR APPAREILS MÉNAGERS

Publication  
**EP 4184066 A1 20230524 (EN)**

Application  
**EP 22208780 A 20221122**

Priority  
IT 202100029555 A 20211123

Abstract (en)  
It is provided a ventilation device (1) for households appliances comprising a axial fan (2) including a frame (3) defining an closed internal wall (30) and a closed external wall (31) wrapped around a central axis (3a), an impeller (4) constrained in a compliant way to the frame (3) within the internal wall (30) and rotatable around the central axis (3a), a drive unit (5) integrally constrained to the frame (3), positioned at the central axis (3a), operatively connected to the impeller (4) and configured to rotate the impeller (4) in proportion to electrical signals, at least one electrical cable (6) connected to the unit (5), and an IDC type connector (7) positioned on the external wall (31), connected to at least the cable (6), facing outwards from the frame (3) and configured to be connected to an external power supply and control system of a household appliance.

IPC 8 full level  
**F24F 1/0018** (2019.01); **F04D 25/06** (2006.01)

CPC (source: EP)  
**F04D 19/002** (2013.01); **F04D 25/0693** (2013.01); **F04D 29/522** (2013.01); **F24F 1/0018** (2013.01)

Citation (applicant)  
• US 2021018009 A1 20210121 - HSIEH MING-KAI [TW], et al  
• US 2020232151 A1 20200723 - SAVINI PAOLO [IT], et al  
• EP 0688088 A1 19951220 - EMERSON ELECTRIC CO [US]  
• US 2014308121 A1 20141016 - TANG XIAN-XIU [CN]  
• US 2016025104 A1 20160128 - SHEN CHING-HANG [TW]  
• US 2008100160 A1 20080501 - SHIBUYA NAOTAKA [JP], et al  
• US 2007280840 A1 20071206 - SUGIYAMA TOMOTSUGU [JP], et al  
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Citation (search report)  
• [XYI] US 2021018009 A1 20210121 - HSIEH MING-KAI [TW], et al  
• [Y] US 2020232151 A1 20200723 - SAVINI PAOLO [IT], et al  
• [Y] US 2014308121 A1 20141016 - TANG XIAN-XIU [CN]  
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• [A] US 2008100160 A1 20080501 - SHIBUYA NAOTAKA [JP], et al  
• [Y] US 2007280840 A1 20071206 - SUGIYAMA TOMOTSUGU [JP], et al  
• [A] US 5189327 A 19930223 - OOTSUKA SHIGERU [JP], et al  
• [A] EP 0688088 A1 19951220 - EMERSON ELECTRIC CO [US]

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA

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KH MA MD TN

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