

Title (en)

AIR CYCLING FAN UNIT SILENCER AND METHOD OF SILENCING AN AIR CYCLING FAN UNIT

Title (de)

LUFTZIRKULATIONSGEBLÄSEEINHEIT UND VERFAHREN ZUR SCHALLDÄMPFUNG EINER LUFTZIRKULATIONSGEBLÄSEEINHEIT

Title (fr)

SILENCIEUX D'UNITÉ DE VENTILATEUR DE RECYCLAGE D'AIR ET PROCÉDÉ D'ATTÉNUATION DU BRUIT D'UNE UNITÉ DE VENTILATEUR DE RECYCLAGE D'AIR

Publication

EP 2980500 A1 20160203 (EN)

Application

EP 15177510 A 20150720

Priority

- GB 201413324 A 20140728
- GB 201500593 A 20150114

Abstract (en)

An air cycling fan unit silencer suitable to be placed at an outlet and/or inlet of a air cycling fan unit, wherein the silencer includes a first air flow changer. Furthermore, a second air flow changer may be spaced from the first air flow changer and arranged to create a plurality of substantially non-linear air flows. Although the non-linear air flows create turbulence, which is typically a source of noise generation at a frequency of around 500Hz - 2000Hz, advantageously it has been found that by forming one of the air flow changers and preferably both air flow changers from a sound absorbing material such as acoustic foam, the sound generated by air movement on the supply side of the unit can be substantially reduced.

IPC 8 full level

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CPC (source: EP GB)

F04D 29/663 (2013.01 - EP); **F24F 13/24** (2013.01 - EP GB); **F24F 13/0263** (2013.01 - EP); **F24F 2013/242** (2013.01 - EP GB)

Citation (search report)

- [I] US 8584795 B1 20131119 - BUCKNER DON M [US]
- [I] EP 1098146 A2 20010509 - JEVEN OY [FI]

Cited by

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Designated contracting state (EPC)

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Designated extension state (EPC)

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