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**F24F 13/08** <sup>(2006.01)</sup> **F24F 13/10** <sup>(2006.01)</sup>  
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**F24F 13/10; F24F 13/14; F24F 13/15; F24F 13/24**

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(54) **VENTILATION APPARATUSES**

(57) An air vent blade 100 for directing an air stream 101 from a ventilation device 400, wherein the air vent blade is elongate and wherein a width 100w of the air vent blade varies along the length of the air vent blade.

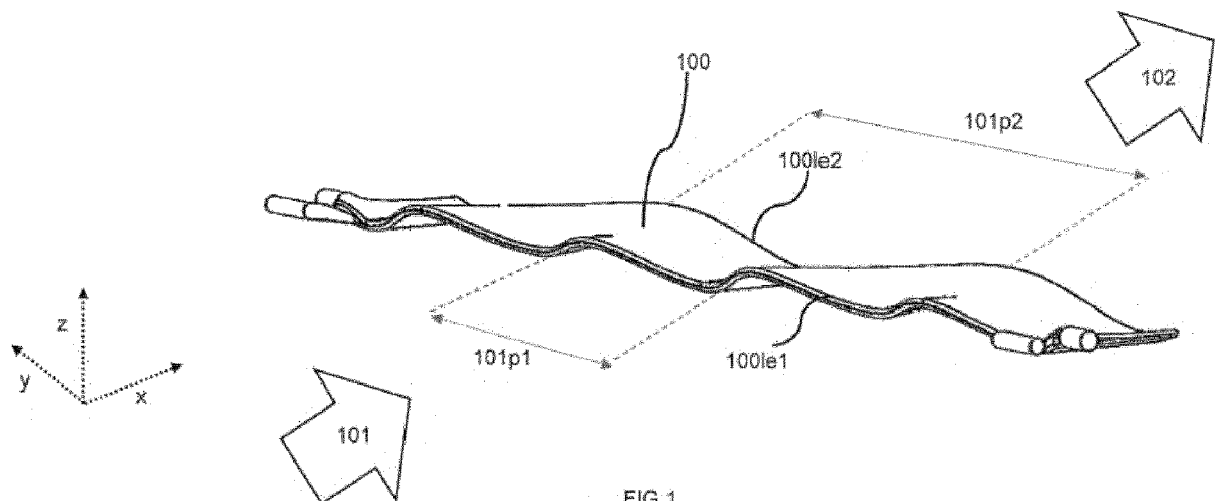


FIG 1



## EUROPEAN SEARCH REPORT

Application Number

EP 21 20 4887

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## DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	EP 2 508 815 A1 (TROX GMBH GEB [DE]) 10 October 2012 (2012-10-10) * abstract; figures 9-12 * -----	1-4, 6-15	INV. F24F11/79 F24F7/08 F24F13/14
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X	KR 2004 0017015 A (HYUNDAI MOTOR CO LTD) 26 February 2004 (2004-02-26) * abstract; figures 1-3 * -----	7-9	TECHNICAL FIELDS SEARCHED (IPC)
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The present search report has been drawn up for all claims			

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EPO FORM 1503 03.82 (P04C01)

Place of search <b>Munich</b>	Date of completion of the search <b>30 June 2022</b>	Examiner <b>Valenza, Davide</b>
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... & : member of the same patent family, corresponding document		



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**CLAIMS INCURRING FEES**

The present European patent application comprised at the time of filing claims for which payment was due.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

**LACK OF UNITY OF INVENTION**

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

**see sheet B**

☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

☒ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

☐ The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).

**LACK OF UNITY OF INVENTION  
SHEET B**

Application Number

**EP 21 20 4887**

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

**1. claims: 1-15**

An air vent blade for directing an air stream from a ventilation device, wherein the air vent blade is elongate and wherein a width of the air vent blade varies along the length of the air vent blade.

**1.1. claims: 7-9(completely); 10-15(partially)**

An air duct chamber of a ventilation device, the chamber defining one or more inner walls, wherein one or more of the inner walls has a cross sectional shape that varies periodically and/or undulates.

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Please note that all inventions mentioned under item 1, although not necessarily linked by a common inventive concept, could be searched without effort justifying an additional fee.

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 21 20 4887

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on  
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