

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2020/087680

A. CLASSIFICATION OF SUBJECT MATTER		
F24F 3/16(2006.01)i; A61M 16/00(2006.01)i		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) F24F3/-; A61M16/-		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) CNABS, CNTXT, DWPI, SIPOABS, USTXT, CNKI: 北京仰生恒泰科技有限责任公司, 呼吸, 盔, 罩, 环境, 头, 导向, 滚动, 运动, 睡觉, 睡眠 breath+, air+, clean+, Helmet, environment, head+, zone, +sleep+		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
PX	CN 110017554 A (BEIJING YANGSHENG HENGTAI TECHNOLOGY CO., LTD.) 16 July 2019 (2019-07-16) description paragraphs 0077-0102, figures 1A-5B	1-2, 7-10, 13-28
PX	CN 110860018 A (BEIJING YANGSHENG HENGTAI TECHNOLOGY CO., LTD.) 06 March 2020 (2020-03-06) description paragraphs 0071-0110, figures 1A-6B	1-28
A	CN 109668230 A (BEIJING YANGSHENG HENGTAI TECHNOLOGY CO., LTD.) 23 April 2019 (2019-04-23) description paragraphs 0161-0216 and figures 1A-12D	1-28
A	JP 2000171067 A (IMAI, Michiko) 23 June 2000 (2000-06-23) entire document	1-28
A	CN 109668229 A (BEIJING YANGSHENG HENGTAI TECHNOLOGY CO., LTD.) 23 April 2019 (2019-04-23) entire document	1-28
A	CN 1434914 A (JAN KRISTENSSON) 06 August 2003 (2003-08-06) entire document	1-28
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 14 July 2020		Date of mailing of the international search report 29 July 2020
Name and mailing address of the ISA/CN China National Intellectual Property Administration (ISA/CN) No. 6, Xitucheng Road, Jimenqiao Haidian District, Beijing 100088 China Facsimile No. (86-10)62019451		Authorized officer Telephone No.

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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CN 103608626 A (AIRSONETT AB) 26 February 2014 (2014-02-26) entire document	1-28
A	CN 106895538 A (SONG, Xinyu) 27 June 2017 (2017-06-27) entire document	1-28

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

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Patent document cited in search report			Publication date (day/month/year)	Patent family member(s)			Publication date (day/month/year)
CN	110017554	A	16 July 2019	CN	209857276	U	27 December 2019
CN	110860018	A	06 March 2020	None			
CN	109668230	A	23 April 2019	CN	209726382	U	03 December 2019
JP	2000171067	A	23 June 2000	None			
CN	109668229	A	23 April 2019	None			
CN	1434914	A	06 August 2003	AT	340973	T	15 October 2006
				ES	2272478	T3	01 May 2007
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				AU	2012238632	B2	28 November 2013
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CN	106895538	A	27 June 2017	None			