

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference APX-001PC	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US2018/023063	International filing date (<i>day/month/year</i>) 19 March 2018 (19-03-2018)	(Earliest) Priority Date (<i>day/month/year</i>) 31 March 2017 (31-03-2017)
Applicant AIRPROX USA, INC.		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 4 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of:

- the international application in the language in which it was filed
 a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6*bis*(a)).

c. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. **Certain claims were found unsearchable** (See Box No. II)

3. **Unity of invention is lacking** (see Box No III)

4. With regard to the **title**,

- the text is approved as submitted by the applicant
 the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

- the text is approved as submitted by the applicant
 the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. 1

- as suggested by the applicant
 as selected by this Authority, because the applicant failed to suggest a figure
 as selected by this Authority, because this figure better characterizes the invention

b. none of the figures is to be published with the abstract

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2018/023063

A. CLASSIFICATION OF SUBJECT MATTER
 INV. G08G1/16 G08G3/02 G08G5/04 G08G9/02
 ADD.
 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)
 G08G

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)
 EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2014/278047 A1 (BAHL PARAMVIR [US] ET AL) 18 September 2014 (2014-09-18)	1-14,17
Y	paragraph [0048] - paragraph [0050] paragraph [0069] - paragraph [0073] paragraph [0091] - paragraph [0095] -----	15,16
X	WO 2015/072621 A1 (LEE AU DO [KR]) 21 May 2015 (2015-05-21)	1,7,12
A	paragraph [0014] paragraph [0042] - paragraph [0054] paragraph [0062] - paragraph [0068] paragraph [0079] - paragraph [0080] paragraph [0090] - paragraph [0100] paragraph [0108] - paragraph [0134] ----- -/--	2-6, 8-11, 13-17

Further documents are listed in the continuation of Box C.

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 25 June 2018	Date of mailing of the international search report 04/07/2018
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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Nanos, Alexander
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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2018/023063

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2016/232790 A1 (MASSEY BRENT F [US] ET AL) 11 August 2016 (2016-08-11) paragraph [0024] - paragraph [0038] paragraph [0044] -----	1,7
X	CN 201 910 142 U (TAO QU) 27 July 2011 (2011-07-27) the whole document -----	1
Y	US 2011/095904 A1 (CHOI JEONG DAN [KR] ET AL) 28 April 2011 (2011-04-28) paragraph [0153] -----	15,16
A	US 2006/273884 A1 (WATKINS GARY A [US] ET AL) 7 December 2006 (2006-12-07) paragraph [0049] - paragraph [0055] -----	12,15,16

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2018/023063

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2014278047	A1	18-09-2014	CN 105144264 A EP 2973497 A1 US 2014278047 A1 US 2015262486 A1 WO 2014159292 A1
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US 2016232790	A1	11-08-2016	AU 2016219325 A1 EP 3257034 A1 JP 2018513504 A KR 20170117098 A US 2016232790 A1 US 2017213460 A1 WO 2016130701 A1
CN 201910142	U	27-07-2011	NONE
US 2011095904	A1	28-04-2011	NONE
US 2006273884	A1	07-12-2006	NONE