

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 31A116012WO22	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/IB2020/051916	International filing date ( <i>day/month/year</i> ) 5 March 2020 (05-03-2020)	(Earliest) Priority Date ( <i>day/month/year</i> ) 26 March 2019 (26-03-2019)
Applicant  ALBAN GIACOMO S.P.A.		

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. 5

- 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/IB2020/051916

**A. CLASSIFICATION OF SUBJECT MATTER**  
 INV. E05B47/00 E05B63/00 E05B63/20 E05B63/04  
 ADD. E05B17/22 E05C19/16

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)  
 E05B E05C

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.
A	WO 2017/158449 A1 (ALBAN GIACOMO SPA [IT]) 21 September 2017 (2017-09-21) cited in the application figures 1-3	1-12
A	EP 2 634 330 A2 (WINKHAUS FA AUGUST [DE]) 4 September 2013 (2013-09-04) the whole document	1-12
A	DE 87 04 036 U1 (-) 2 July 1987 (1987-07-02) figures 1, 5	1-12
A	GB 1 009 996 A (LICENTIA GMBH) 17 November 1965 (1965-11-17) the whole document	1-12
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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  11 May 2020	Date of mailing of the international search report  20/05/2020
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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  Cruyplant, Lieve
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# INTERNATIONAL SEARCH REPORT

International application No  
PCT/IB2020/051916

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 7 308 737 B2 (WASHIN OPTICAL CO LTD [JP]) 18 December 2007 (2007-12-18) the whole document -----	1-12

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/IB2020/051916
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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2017158449 A1	21-09-2017	EP 3430216 A1 WO 2017158449 A1	23-01-2019 21-09-2017
EP 2634330 A2	04-09-2013	DE 102012203053 A1 EP 2634330 A2	29-08-2013 04-09-2013
DE 8704036 U1	02-07-1987	NONE	
GB 1009996 A	17-11-1965	DE 1199158 B GB 1009996 A	19-08-1965 17-11-1965
US 7308737 B2	18-12-2007	AU 2006200536 A1 BR PI0600346 A CA 2534244 A1 CN 1818304 A EP 1691012 A2 JP 2006219964 A KR 20060090610 A NZ 545160 A RU 2369709 C2 SG 125180 A1 TW 200628683 A US 2006174455 A1	24-08-2006 03-10-2006 09-08-2006 16-08-2006 16-08-2006 24-08-2006 14-08-2006 28-07-2006 10-10-2009 29-09-2006 16-08-2006 10-08-2006