

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference AO P14973WO	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/EP2018/076397	International filing date (<i>day/month/year</i>) 28 September 2018 (28-09-2018)	(Earliest) Priority Date (<i>day/month/year</i>) 29 September 2017 (29-09-2017)
Applicant SECO-E.P.B.		

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/EP2018/076397

A. CLASSIFICATION OF SUBJECT MATTER
INV. B23B29/034
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)
B23B B23C B23D

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 3 755 868 A (LA FORGE R ET AL) 4 September 1973 (1973-09-04) column 1, line 48 - column 2, line 17; figures 1-4	1-15
X	US 4 544 309 A (KRSTOVIC DRAGISA [US]) 1 October 1985 (1985-10-01) column 3, lines 26-57; figures 1-3	1 2-15
X	US 3 853 422 A (BENJAMIN M ET AL) 10 December 1974 (1974-12-10) column 2, lines 18-42; figures 1-5	1 2-15
A	DE 10 2011 082964 A1 (GUEHRING OHG [DE]) 21 March 2013 (2013-03-21) the whole document	1-15
	----- -/--	

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 22 November 2018	Date of mailing of the international search report 06/12/2018
--	---

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 Coja, Michael
--	--

INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2018/076397

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 2015/306672 A1 (BASSETT ROGER [GB] ET AL) 29 October 2015 (2015-10-29) the whole document -----	1-15

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2018/076397

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 3755868	A	04-09-1973	DE 2235782 A1 08-02-1973
			FR 2147611 A5 09-03-1973
			GB 1366428 A 11-09-1974
			IT 962826 B 31-12-1973
			JP S5427593 B1 11-09-1979
			US 3755868 A 04-09-1973

US 4544309	A	01-10-1985	NONE

US 3853422	A	10-12-1974	CA 992362 A 06-07-1976
			DE 2409142 A1 07-05-1975
			GB 1399593 A 02-07-1975
			JP S5074873 A 19-06-1975
			JP S5733122 B2 15-07-1982
			US 3853422 A 10-12-1974

DE 102011082964 A1		21-03-2013	DE 102011082964 A1 21-03-2013
			EP 2758198 A1 30-07-2014
			WO 2013041075 A1 28-03-2013

US 2015306672 A1		29-10-2015	DE 102015005470 A1 29-10-2015
			GB 2525620 A 04-11-2015
			US 2015306672 A1 29-10-2015
