

**PATENT COOPERATION TREATY**

**PCT**

**INTERNATIONAL SEARCH REPORT**

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference OVIN-003-EP-WO	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/EP2018/052441	International filing date ( <i>day/month/year</i> ) 31 January 2018 (31-01-2018)	(Earliest) Priority Date ( <i>day/month/year</i> ) 2 February 2017 (02-02-2017)
Applicant  OVINTO CVBA		

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. 2  
 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

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

**METHOD AND SYSTEM FOR MONITORING OF RAIL WAGON HAND BRAKE**

The current invention relates to a method for monitoring a hand brake (1) of at least one rail wagon, preferably unpowered rail wagon, comprising a chassis by means of a monitoring system (33, 34); said hand brake comprising a hand-operated mechanical device, a brake linkage system and at least one brake pad; said hand-operated mechanical device, said brake linkage system and said at least one brake pad mechanically connected; said monitoring system comprising a detection module and a monitoring module; said detection module comprising at least one detector element (33, 34); said monitoring module comprising a processor, tangible non-volatile memory, instructions on said memory for instructing said processor; said method comprising a plurality of steps.

# INTERNATIONAL SEARCH REPORT

International application No  
PCT/EP2018/052441

**A. CLASSIFICATION OF SUBJECT MATTER**  
 INV. B60T17/22  
 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)  
 B60T

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.
Y	US 6 006 868 A (KLINK DOUGLAS D [US]) 28 December 1999 (1999-12-28) cited in the application	1-9, 13-15
A	column 2, line 65 - column 3, line 30; figures 1,2 column 4, lines 22-39 column 5, lines 21-25	10-12
Y	US 6 170 619 B1 (SHERIFF ALAN V [US] ET AL) 9 January 2001 (2001-01-09)	1-9, 13-15
A	column 2, lines 36-54; figure 1	10-12
Y	US 2012/046811 A1 (MURPHY WAYNE [US] ET AL) 23 February 2012 (2012-02-23)	1,8,9, 14,15
	paragraphs [0028] - [0030]; figure 6	

Further documents are listed in the continuation of Box C.       See patent family annex.

\* Special categories of cited documents :

<p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier application or patent but published on or after the international filing date</p> <p>"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)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p>	<p>"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</p> <p>"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</p> <p>"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</p> <p>"&amp;" document member of the same patent family</p>
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Date of the actual completion of the international search	Date of mailing of the international search report
7 May 2018	18/05/2018

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  Dekker, Wouter
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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2018/052441

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6006868	A	28-12-1999	AU 739311 B2 11-10-2001
			CA 2210182 A1 14-05-1998
			US 6006868 A 28-12-1999
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US 6170619	B1	09-01-2001	NONE
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US 2012046811	A1	23-02-2012	CA 2713974 A1 23-02-2012
			US 2012046811 A1 23-02-2012
			US 2015232079 A1 20-08-2015
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