

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P3354PC00	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/IB2018/056779	International filing date (<i>day/month/year</i>) 5 September 2018 (05-09-2018)	(Earliest) Priority Date (<i>day/month/year</i>) 5 September 2017 (05-09-2017)
Applicant HUSQVARNA AB		

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 7 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

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

A lawn mower (100) may include a blade housing (200), a power source (110) supported at least in part by the blade housing (200) to selectively rotate a drive shaft (281), a mobility assembly (120) including a first set of wheels (240) and second set of wheels (242) operably coupled to the blade housing (200), a first cutting blade (210), a second cutting blade (212), and a power transfer assembly (140). The first cutting blade (210) and the second cutting blade (212) may be disposed to be rotatable within the blade housing (200) in a same plane such that respective blade orbits of the first cutting blade (210) and the second cutting blade (212) at least partially overlap at an overlap region. The power transfer assembly (140) may be operably coupled to the drive shaft (281) and configured to drive the first cutting blade (210) and the second cutting blade (212) to rotate within the blade housing (200) in opposite directions and control timing of passage of the first cutting blade (210) and the second cutting blade (212) through the overlap region. The blade housing (200) may be configured to be operably coupled to a bagging attachment (250) via a first discharge tunnel (260) disposed proximate to the first cutting blade (210) and a second discharge tunnel (262) disposed proximate to the second cutting blade (212). The first cutting blade (210) rotates to generate a first flow path along a first side of the blade housing (200) toward the first discharge tunnel (260) and the second cutting blade (212) rotates to generate a second flow path along a second side of the blade housing (200) toward the second discharge tunnel (262).

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.

3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-8, 14

Remark on Protest

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.

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A. CLASSIFICATION OF SUBJECT MATTER
 INV. A01D34/685 A01D34/76 A01D43/063
 ADD. A01D34/71

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)
 A01D

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 4 335 567 A (COMER ROBERT C) 22 June 1982 (1982-06-22) the whole document	1-8,14
X	US 5 214 906 A (SAKI MITSUO [JP] ET AL) 1 June 1993 (1993-06-01) column 5, line 17 - column 6, line 23; figures 3, 4	1,4,6-8
X	US 3 157 014 A (BOTTEBERG WARREN E) 17 November 1964 (1964-11-17) the whole document	1,2,8
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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>"&" document member of the same patent family</p>
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Date of the actual completion of the international search 22 November 2018	Date of mailing of the international search report 24/01/2019
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International application No
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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 2 926 478 A (IVAR JEPSON) 1 March 1960 (1960-03-01) column 4, line 53 - line 63; figures 1, 2, 3, 6 column 5, line 27 - line 30 column 6, line 43 - line 63 column 7, line 60 - column 8, line 20 column 8, line 72 - column 9, line 11 -----	1,4,6-8, 14

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Information on patent family members

International application No

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 4335567	A	22-06-1982	NONE
US 5214906	A	01-06-1993	NONE
US 3157014	A	17-11-1964	NONE
US 2926478	A	01-03-1960	NONE

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-8, 14

lawn mower comprising two discharge tunnels

2. claims: 9-13, 15-21

lawn mower comprising a specific power transfer assembly
