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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 15/085,830	Filing Date 03/30/2016	☐ To be Mailed
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ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

FOR	NUMBER FILED (Column 1)	NUMBER EXTRA (Column 2)		RATE (\$)	FEE (\$)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(j))	minus 20 =	*		X \$ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		X \$ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).				
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))					
				TOTAL	

* If the difference in column 1 is less than zero, enter "0" in column 2.

APPLICATION AS AMENDED – PART II

	(Column 1)	(Column 2)	(Column 3)	(Column 4)	(Column 5)	RATE (\$)	ADDITIONAL FEE (\$)	
AMENDMENT	09/13/2017	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA			
	Total (37 CFR 1.16(i))	* 19	Minus	** 20	= 0	X \$80 =	0	
	Independent (37 CFR 1.16(h))	* 1	Minus	***3	= 0	X \$420 =	0	
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
						TOTAL ADD'L FEE	0	

	(Column 1)	(Column 2)	(Column 3)	(Column 4)	(Column 5)	RATE (\$)	ADDITIONAL FEE (\$)	
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA			
	Total (37 CFR 1.16(i))	*	Minus	**	=	X \$ =		
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X \$ =		
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
						TOTAL ADD'L FEE		

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

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Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (03-15)

Approved for use through 07/31/2016. OMB 0651-0031

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		15085830
	Filing Date		2016-03-30
	First Named Inventor	Wayne Ernest Conrad	
	Art Unit	3727	
	Examiner Name	Muller, Bryan R.	
	Attorney Docket Number	10452-P46958US04	

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Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	
	1	5515573	A	1996-05-14	FREY		
	2	5709007	A	1998-01-20	CHIANG		
	3	7113847	B2	2006-09-26	CHUMURA et al.		
	4	7128770	B2	2006-10-31	OH et al.		
	5	7426768	B2	2008-09-23	PETERSON et al.		
	6	7565853	B2	2009-07-28	ARNOLD et al.		
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Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20020134238	A1	2002-09-26	CONRAD et al.	
	2	20080196745	A1	2008-08-21	CONRAD	
	3	20110219576	A1	2011-09-15	CONRAD	
	4	20120079671	A1	2012-04-05	STICKNEY et al.	
	5	20130160232	A1	2013-06-27	PEACE	
	6	20140237956	A1	2014-08-28	CONRAD	
	7	20150135474	A1	2015-05-21	Christopher Gidwell	
	8	20150297050	A1	2015-10-22	MARSH et al.	
	9	20160113460	A1	2016-04-28	WILLIAMS et al.	
	10	20150230677	A1	2015-08-20	ANDRIKANISH	

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11	20110289719	A1	2011-12-01	HAN et al.
12	20100229324	A1	2010-09-16	CONRAD

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	1	101095604	CN	A	2008-01-02	KWONNIE ELECTRICAL PRODUCTS LIMITED	English machine translation	×
	2	101108081	CN	A	2008-01-23	LG ELECTRONICS TIANJIN ELECTRIC APPLIANCE	English machine translation	☒
	3	101108106	CN	A	2008-01-23	LG ELECTRONICS TIANJIN ELECTRIC APPLIANCE	English machine translation	☒
	4	101108110	CN	A	2008-01-23	LG ELECTRONICS TIANJIN ELECTRIC APPLIANCE	English machine translation	☒
	5	101448447	CN	A	2009-06-03	ELECTROLUX	English machine translation	☒
	6	101489453	CN	A	2009-07-22	DYSON TECHNOLOGY LTD	English machine translation	☒
	7	101489455	CN	A	2009-07-22	DYSON TECHNOLOGY LTD	English machine translation	☒

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8	101489457	CN	A	2009-07-22	DYSON TECHNOLOGY LTD	English machine translation	☒
9	101489461	CN	A	2009-07-22	DYSON TECHNOLOGY LTD	English machine translation	☒
10	101822506	CN	A	2010-09-08	BLACK & DECKER	English machine translation	☒
11	102188208	CN	A	2011-09-21	G.B.D. CORP., LTD.	English machine translation	☒
12	102256523	CN	A	2011-11-23	TECHTRONIC FLOOR CARE TECHNOLOGY	English machine translation	☒
13	1336154	CN	A	2002-02-20	SAMSUNG KWANGJU ELECTRONICS CO	English machine translation	☒
14	1434688	CN	A	2003-08-06	LG ELECTRONICS INC.	English machine translation	☒
15	1626025	CN	A	2005-06-15	BLACK & DECKER	English machine translation	☒
16	1875846	CN	A	2006-12-13	LG ELECTRONICS TIANJIN ELECTRIC APPLIANCE	English machine translation	☒
17	1875855	CN	A	2006-12-13	LG ELECTRONICS TIANJIN ELECTRIC APPLIANCE	English machine translation	☒
18	1895148	CN	A	2007-01-17	BLACK & DECKER	English machine translation	☒

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19	201290642	CN	Y	2009-08-19	KINGCLEAN ELECTRIC NO., LTD.	English machine translation	☒
20	201683850	CN	U	2010-12-29	KINGCLEAN ELECTRIC NO., LTD.	English machine translation	☒
21	203724037	CN	U	2014-07-23	KWONNIE ELECTRICAL PRODUCTS LTD	English machine translation	☒
22	10056935	DE	C2	2003-01-16	SAMSUNG KWANGJU ELECTRONICS CO	English machine translation	☒
23	102007011457	DE	A1	2007-10-25	ROYAL APPLIANCE INTERNAT GMBH	English machine translation	☒
24	102012211246	DE	A1	2014-01-02	BOSCH SIEMENS HAUSGERATE	English machine translation	☒
25	112010001135	DE	T5	2012-08-02	G.B.D. CORP.	English machine translation	☒
26	202010018047	DE	U1	2013-11-14	DYSON TECHNOLOGY	English machine translation	☒
27	202010018084	DE	U1	2014-02-27	DYSON TECHNOLOGY	English machine translation	☒
28	202010018085	DE	U1	2014-02-27	DYSON TECHNOLOGY	English machine translation	☒
29	60201666	DE	T2	2006-06-01	DYSON TECHNOLOGY	English machine translation	☒

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30	60211663	DE	T2	2007-05-10	DYSON TECHNOLOGY	English machine translation	☒
31	69907201	DE	T2	2004-02-05	NOTETRY LTD	English machine translation	☒
32	2003135335	JP	A	2003-05-13	TOSHIBA INC	English machine translation	☒
33	2005040246	JP	A	2005-02-17	SANYO ELECTRIC	English machine translation	☒
34	2009261501	JP	A	2009-11-12	YAMADA ELECTIC	English machine translation	☒
35	2010081968	JP	A	2010-04-15	SHARP	English machine translation	☒
36	1020010045598	KR	A	2001-06-05	SAMSUNG ELECTRONICS	English machine translation	☒
37	1020020067489	KR	A	2002-08-22	SHARP	English machine translation	☒
38	1020020085478	KR	A	2002-11-16	LG ELECTRONICS	English machine translation	☒
39	1020040050174	KR	A	2004-06-16	SAMSUNG ELECTRONICS	English machine translation	☒
40	1020060008365	KR	A	2006-01-26	LG ELECTRONICS	English machine translation	☒

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41	1020060118795	KR	A	2006-11-24	LG ELECTRONICS	English machine translation	☒
42	1020060118800	KR	A	2006-11-24	LG ELECTRONICS	English machine translation	☒
43	1020060118802	KR	A	2006-11-24	LG ELECTRONICS	English machine translation	☒
44	1020060118803	KR	A	2006-11-24	LG ELECTRONICS	English machine translation	☒
45	1020060122249	KR	A	2006-11-30	LG ELECTRONICS	English machine translation	☒
46	1020060125952	KR	A	2006-12-07	LG ELECTRONICS	English machine translation	☒
47	1020060125954	KR	A	2006-12-07	LG ELECTRONICS	English machine translation	☒
48	1020100084127	KR	A	2010-07-23	SEB	English machine translation	☒
49	10681	NL	C	1923-11-17	LEHMANN	English machine translation	☒
50	2008035032	WO	A2	2008-03-27	DYSON TECHNOLOGY	English machine translation	☒

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1	English machine translation of CN101095604A published on January 2, 2008	
	2	English machine translation of CN101108081A published on January 23, 2008	
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	4	English machine translation of CN101108110A published on January 23, 2008	
	5	English machine translation of CN101448447A published on June 3, 2009	
	6	English machine translation of CN101489453A published on July 22, 2009	
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	8	English machine translation of CN101489457A published on July 22, 2009	
	9	English machine translation of CN101489461A published on July 22, 2009	
	10	English machine translation of CN101822506A published on September 8, 2010	

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11	English machine translation of CN102188208A published on September 21, 2011
12	English machine translation of CN102256523A published on November 23, 2011
13	English machine translation of CN1336154A published on February 20, 2002
14	English machine translation of CN1434688A published on August 6, 2003
15	English machine translation of CN1626025A published on June 16, 2005
16	English machine translation of CN1875846A published on December 13, 2006
17	English machine translation of CN1875855A published on December 13, 2006
18	English machine translation of CN1895148A published on January 17, 2007
19	English machine translation of CN201290642Y published on August 19, 2009
20	English machine translation of CN201683850U published on December 29, 2010
21	English machine translation of CN203724037U published on July 23, 2014

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22	English machine translation of DE10056935C2 published on January 16, 2003
23	English machine translation of DE102007011457A1 published on October 25, 2007
24	English machine translation of DE102012211246A1 published on January 2, 2014
25	English machine translation of DE112010001135T5 published on August 2, 2012
26	English machine translation of DE202010018047U1 published on November 14, 2013
27	English machine translation of DE202010018084U1 published on February 27, 2014
28	English machine translation of DE202010018085U1 published on February 27, 2014
29	English machine translation of DE60201666T2 published on August 1, 2006
30	English machine translation of DE60211663T2 published on May 10, 2007
31	English machine translation of DE69907201T2 published on February 5, 2004
32	English machine translation of JP2003135335A published on May 13, 2003

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33	English machine translation of JP2005040246A published on February 17, 2005
34	English machine translation of JP2009261501A published on November 12, 2009
35	English machine translation of JP2010081968A published on April 15, 2010
36	English machine translation of KR1020010045598A published on June 5, 2001
37	English machine translation of KR1020020067489A published on August 22, 2002
38	English machine translation of KR1020020085478A published on November 16, 2002
39	English machine translation of KR1020040050174A published on June 16, 2004
40	English machine translation of KR1020060008365A published on January 26, 2006
41	English machine translation of KR1020060118795A published on November 24, 2006
42	English machine translation of KR1020060118800A published on November 24, 2006
43	English machine translation of KR1020060118802A published on November 24, 2006

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44	English machine translation of KR1020060118803A published on November 24, 2006
45	English machine translation of KR1020060122249A published on November 30, 2006
46	English machine translation of KR1020060125952A published on December 7, 2006
47	English machine translation of KR1020060125954A published on December 7, 2006
48	English machine translation of KR1020100084127A published on July 23, 2010
49	English machine translation of NL10681C published on November 17, 1923
50	English machine translation of WO2008035032A2 published on March 27, 2008

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CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Philip C. Mendes da Costa/	Date (YYYY-MM-DD)	2017-10-05
Name/Print	Philip C. Mendes da Costa	Registration Number	33,106

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5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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	1	5815881	A1	1998-10-06	SJOEGREEN		

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	15085830
Filing Date	2016-03-30
First Named Inventor	Wayne Ernest Conrad
Art Unit	3727
Examiner Name	Muller, Bryan R.
Attorney Docket Number	10452-P46958US04

4	2002085297	JP	A	2002-03-26	MATSUSHITA ELECTRIC IND CO LTD	English machine translation	☒
5	2015129387	WO	A1	2015-09-03	MITSUBISHI ELECTRIC	English machine translation	☒
6	202739907	CN	U	2013-02-20	NINGBO MIMIR ELECTRICAL APPLIANCE CO LTD	English machine translation	☒
7	205671986	CN	U	2016-11-09	SUZHOU CHENGHE CLEANING EQUIPMENT CO LTD	English machine translation	☒
8	105816104	CN	A	2016-08-03	HITACHI APPLIANCES INC	English machine translation	☒
9	2013086228	JP	A	2013-05-13	HITACHI KOKI CO LTD	English machine translation	☒
10	2006102034	JP	A	2006-04-20	MATSUSHITA ELECTRIC IND CO LTD	English machine translation	☒
11	2450450	CA	A1	2004-12-26	SAMSUNG KWANGJU ELECTRONICS CO., LTD.		☐
12	2658014	CA	A1	2010-09-11	G.B.D. CORP.		☐
13	0489498	EP	A1	1992-06-10	HALLIBURTON		☐
14	203578	GB	B	1982-10-13	L & H DESIGNS LTD et al.		☐

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Examiner Name	Muller, Bryan R.	
Attorney Docket Number	10452-P46958US04	

15	2307849	GB	A	1997-06-11	ELECTROLUX		☐
16	2465781	GB	A	2010-06-02	DYSON TECHNOLOGY		☐
17	2008035032	WO	A3	2008-06-12	DYSON TECHNOLOGY et al.		☐
18	0147247	WO	A2	2001-06-28	PHILIPS		☐
19	2008135708	WO	A1	2008-11-13	DYSON TECHNOLOGY et al.		☐
20	2016065151	WO	A1	2016-04-28	TECHTRONIC INDUSTRIES ET AL		☐
21	2006076363	WO	A3	2006-12-14	ROYAL APPLIANCE MFG. CO.		☐
22	2006076363	WO	A2	2006-07-20	ROYAL APPLIANCE MFG. CO.		☐
23	2440111	GB	A	2008-01-23	DYSON TECHNOLOGY		☐
24	2008070973	WO	A1	2008-06-19	GBD CORP et al.		☐
25	2017046557	WO	A1	2017-03-23	DYSON TECHNOLOGY		☐

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Examiner Name	Muller, Bryan R.
Attorney Docket Number	10452-P46958US04

26	2017046559	WO	A1	2017-03-23	DYSON TECHNOLOGY	☐
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First Named Inventor	Wayne Ernest Conrad
Art Unit	3727
Examiner Name	Muller, Bryan R.
Attorney Docket Number	10452-P46958US04

8	English machine translation of CN105816104A published on August 3, 2016
9	English machine translation of JP2013086228A published on may 13, 2013
10	English machine translation of JP2006102034A published on April 20, 2006
11	Combined Search and Examination Report under Sections 17 & 18(3) received in connection to the corresponding GB Patent Application No. 1522195.5 dated June 16, 2016
12	Combined Search and Examination Report under Sections 17 & 18(3) received in connection to the corresponding GB Patent Application No. 1706875.0 dated May 25, 2017
13	International Preliminary Report on Patentability in International Application No. PCT/CA2015/051332 dated June 29, 2017
14	International Search Report and Written Opinion received in connection to International Patent Application No. PCT/CA2014/000133, mailed on may 26, 2014
15	International Search Report and Written Opinion received in connection to International patent application no. PCT/CA2017/050436, mailed on July 21, 2017
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Filing Date	2016-03-30
First Named Inventor	Wayne Ernest Conrad
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Application Number	15085830
Filing Date	2016-03-30
First Named Inventor	Wayne Ernest Conrad
Art Unit	3727
Examiner Name	Muller, Bryan R.
Attorney Docket Number	10452-P46958US04

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OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Philip C. Mendes da Costa/	Date (YYYY-MM-DD)	2017-10-05
Name/Print	Philip C. Mendes da Costa	Registration Number	33,106

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EFS ID:	30575374
Application Number:	15085830
International Application Number:	
Confirmation Number:	9332
Title of Invention:	SURFACE CLEANING APPARATUS
First Named Inventor/Applicant Name:	Wayne Ernest Conrad
Customer Number:	1059
Filer:	Philip C. Mendes da Costa/Nakita D'souza
Filer Authorized By:	Philip C. Mendes da Costa
Attorney Docket Number:	10452-P46958US04
Receipt Date:	05-OCT-2017
Filing Date:	30-MAR-2016
Time Stamp:	13:55:33
Application Type:	Utility under 35 USC 111(a)

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1	Transmittal Letter	P46958US04_IDS_commissio er_Ltr_20171005.pdf	165188 4e745ef80fe63ca885245cfbb43b337e1e5b041f	no	2

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Information:					
Total Files Size (in bytes):			50767062		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					

Electronic Acknowledgement Receipt

EFS ID:	30575498
Application Number:	15085830
International Application Number:	
Confirmation Number:	9332
Title of Invention:	SURFACE CLEANING APPARATUS
First Named Inventor/Applicant Name:	Wayne Ernest Conrad
Customer Number:	1059
Filer:	Philip C. Mendes da Costa/Nakita D'souza
Filer Authorized By:	Philip C. Mendes da Costa
Attorney Docket Number:	10452-P46958US04
Receipt Date:	05-OCT-2017
Filing Date:	30-MAR-2016
Time Stamp:	14:02:21
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Foreign Reference	FR8_CN105816104A.pdf	7786198	no	79
			9cd12b245f4797b09d491c24ca555ce4c6162ea3		

Warnings:

Information:					
2	Foreign Reference	FR9_JP2013086228A.pdf	645851	no	16
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Warnings:					
Information:					
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Information:					
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Information:					

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Warnings:					
Information:					
Total Files Size (in bytes):			23567464		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					

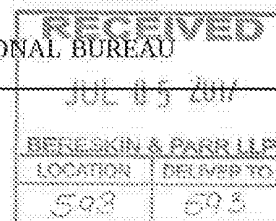


ADVANCE E-MAIL

PCT

NOTIFICATION CONCERNING
TRANSMITTAL OF COPY OF INTERNATIONAL
PRELIMINARY REPORT ON PATENTABILITY
(CHAPTER I OF THE PATENT COOPERATION
TREATY)
(PCT Rule 44bis.1(c))

From the INTERNATIONAL BUREAU



To:

BERESKIN & PARR LLP/S.E.N.C.R.L., S.R.L.
Scotia Plaza
40 King Street West
40th Floor
Toronto, Ontario M5H 3Y2
CANADA

Date of mailing (day/month/year)

29 June 2017 (29.06.2017) ✓

Applicant's or agent's file reference

P46958PC00 --

IMPORTANT NOTICE

International application No.

PCT/CA2015/051332

International filing date (day/month/year)

16 December 2015 (16.12.2015)

Priority date (day/month/year)

17 December 2014 (17.12.2014)

Applicant

OMACHRON INTELLECTUAL PROPERTY INC.

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. +41 22 338 82 70

Authorized officer

Athina Nickitas-Etienne

e-mail: pct.team4@wipo.int



PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference P46958PC00	FOR FURTHER ACTION	See item 4 below
International application No. PCT/CA2015/051332	International filing date (day/month/year) 16 December 2015 (16.12.2015)	Priority date (day/month/year) 17 December 2014 (17.12.2014)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant OMACHRON INTELLECTUAL PROPERTY INC.		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).

2. This REPORT consists of a total of 5 sheets, including this cover sheet.

In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

- | | | |
|-------------------------------------|--------------|---|
| ☒ | Box No. I | Basis of the report |
| ☐ | Box No. II | Priority |
| ☐ | Box No. III | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability |
| ☒ | Box No. IV | Lack of unity of invention |
| ☒ | Box No. V | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| ☐ | Box No. VI | Certain documents cited |
| ☐ | Box No. VII | Certain defects in the international application |
| ☐ | Box No. VIII | Certain observations on the international application |

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).

	Date of issuance of this report 20 June 2017 (20.06.2017)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Authorized officer Athina Nickitas-Etienne e-mail: pct.team4@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

To:
BERESKIN & PARR LLP/S.E.N.C.R.L., S.R.L.
Scotia Plaza
40 King Street West, 40th Floor
TORONTO, Ontario
Canada, M5H 3Y2

Date of mailing 7 March 2016 (07-03-2016)
(day/month/year)

Applicant's or agent's file reference:
P46958PC00

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/CA2015/051332

International filing date (day/month/year)

16 December 2015 (16-12-2015)

Priority date (day/month/year)

17 December 2014 (17-12-2014)

International Patent Classification (IPC) or both national classification and IPC

IPC: **A47L 11/00** (2006.01)

Applicant

OMACHRON INTELLECTUAL PROPERTY INC.

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☒ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1*bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/CA
Canadian Intellectual Property Office
Place du Portage I, C114 - 1st Floor, Box PCT
50 Victoria Street
Gatineau, Quebec K1A 0C9
Facsimile No.: 001-819-953-2476

Date of completion of this opinion

06 March 2016 (06-03-2016)

Authorized officer

Jarret Diggins (819) 639-7846



WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/CA2015/051332

Box No. 1 Basis of this opinion

1. With regard to the **language**, this opinion has been established 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)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a)).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing:

- a. ☐ forming part of the international application as filed:
 ☐ in the form of an Annex C/ST.25 text file.
 ☐ on paper or in the form of an image file.
b. ☐ furnished together with the international application under PCT Rule 13*ter*.1(a) for the purposes of international search only in the form of an Annex C/ST.25 text file.
c. ☐ furnished subsequent to the international filing date for the purposes of international search only:
 ☐ in the form of an Annex C/ST.25 text file (Rule 13*ter*.1(a)).
 ☐ on paper or in the form of an image file (Rule 13*ter*.1(b) and Administrative Instructions, Section 713).
4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/CA2015/051332

Box No. IV **Lack of unity of invention**

1. ☐ In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has, within the applicable time limit:
- ☐ paid additional fees
 - ☐ paid additional fees under protest and, where applicable, the protest fee
 - ☐ paid additional fees under protest but the applicable protest fee was not paid
 - ☐ not paid additional fees
2. ☒ This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.
3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is
- ☐ complied with.
 - ☐ not complied with for the following reasons:

Groups A and B comprise the following which is well known in the art: a surface cleaning apparatus comprising: a surface cleaning head having a dirty air inlet; b. an upright section moveably mounted to the surface cleaning head, the upright section moveable between a plurality of reclined floor cleaning positions; a portable vacuum cleaner removably mounted to the upright section, the portable vacuum cleaner unit comprising an air treatment members:

Group A (Claims 1-24): further comprises an auxiliary dirt collection assembly removably mounted to the upright section wherein, in a first upright mode of operation, the auxiliary dirt collection assembly is removed from the upright section and the hand vacuum cleaner is in airflow communication with the dirty air inlet and, in a second upright mode of operation, the multimode surface cleaning apparatus is operable with the auxiliary dirt collection assembly mounted to the upright section.

Group B Claims 25-36: further comprises a portable unit section motor in the air flow path; and, an upstream dirty-air/suction motor in the air flow path downstream from the dirty air inlet and upstream from the portable vacuum cleaner wherein the surface cleaning apparatus is operable in an upright mode in which the portable vacuum cleaner unit is mounted to the upright section and the portable vacuum cleaner unit is operable in a portable mode wherein the portable vacuum cleaner unit is detached from the upright section.

4. Consequently, this opinion has been established in respect of the following parts of the international application:
- ☒ all parts.
 - ☐ the parts relating to claim Nos.



WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/CA2015/051332

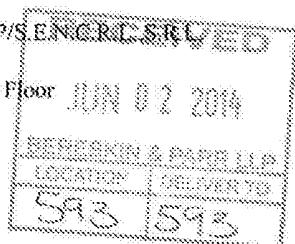
Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1. Statement			
Novelty (N)	Claims <u>1-36</u>		YES
	Claims <u>NONE</u>		NO
Inventive step (IS)	Claims <u>1-36</u>		YES
	Claims <u>NONE</u>		NO
Industrial applicability (IA)	Claims <u>1-36</u>		YES
	Claims <u>NONE</u>		NO
2. Citations and explanations:			
D1: WO9720492 (DOWNHAM et al.) 12 June 1997 (1997-06-12)			
NOVELTY			
<p>Claims 1-36 are novel and do comply with Article 33(2) of the PCT. Document D1 teaches a surface cleaning apparatus comprising: a surface cleaning head (3) having a dirty air inlet (4); an upright section (16) moveably mounted to the surface cleaning head, the upright section moveable between a plurality of reclined floor cleaning positions; a portable vacuum cleaner (2) removably mounted to the upright section, the portable vacuum cleaner unit comprising an air treatment members; further comprising an auxiliary dirt collection assembly (20) removably mounted to the upright section wherein, further comprises a portable unit suction motor (22) in the air flow path; and, an upstream dirty-air/suction motor (11) in the air flow path downstream from the dirty air inlet; wherein the surface cleaning apparatus (2) is operable in an upright mode in which the portable vacuum cleaner unit is mounted to the upright section and the portable vacuum cleaner unit is operable in a portable mode wherein the portable vacuum cleaner unit is detached from the upright section.</p> <p>The subject matter of claim 1 differs from the prior art in that in a first upright mode of operation, the auxiliary dirt collection assembly is removed from the upright section and the hand vacuum cleaner is in airflow communication with the dirty air inlet and, in a second upright mode of operation, the multimode surface cleaning apparatus is operable with the auxiliary dirt collection assembly mounted to the upright section.</p> <p>The subject matter of claim 25 differs from the prior art in the upstream dirty-air/suction motor (11) is in the air flow path downstream from the dirty air inlet and upstream from the portable vacuum cleaner.</p>			
INVENTIVE STEP			
<p>Claims 1-36 do comply with Article 33(3) of the PCT.</p> <p>The subject matter of claim 1 is considered to involve an inventive step since the prior art does not fairly suggest that in a first upright mode of operation, the auxiliary dirt collection assembly is removed from the upright section and the hand vacuum cleaner is in airflow communication with the dirty air inlet and, in a second upright mode of operation, the multimode surface cleaning apparatus is operable with the auxiliary dirt collection assembly mounted to the upright section.</p> <p>The subject matter of claim 25 is considered to involve an inventive step since the prior art does not fairly suggest the upstream dirty-air/suction motor (11) is in the air flow path downstream from the dirty air inlet and upstream from the portable vacuum cleaner.</p>			
INDUSTRIAL APPLICABILITY			
<p>The subject matter of claims 1-36 is considered to be industrially applicable and thus complies with the requirements of Article 33(4) of the PCT.</p>			

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:

BERESKIN & PARR LLP/S. ENCRETE
Scotia Plaza
40 King Street West, 40th Floor
TORONTO, Ontario
Canada, M5H 3Y2



PCT

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT AND
THE WRITTEN OPINION OF THE INTERNATIONAL
SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Applicant's or agent's file referenced P39194PC00 - 10452	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/CA2014/000133	International filing date 24 February 2014 (24-02-2014)
Applicant G.B.D. CORP. ET AL.	

Ident July 26, 2014 ns

1.	☒	The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46): When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report. Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 338 8270 For more detailed instructions, see PCT Applicant's Guide, International Phase, paragraphs 9.004 - 9.011.
2.	☐	The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.
3.	☐	With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the any request to forward the texts of both the protest and the decision thereon to the designated Offices. ☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.
4.	☐	Reminders The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. Following the expiration of 30 months from the priority date, these comments will also be made available to the public. Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau before the completion of the technical preparations for international publication (Rules 90bis.1 and 90bis.3). Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices. In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months. For details about the applicable time limits, Office by Office, see www.wipo.int/pct/en/texts/time_limits.html and the <i>PCT Applicant's Guide, National Chapters</i>

Name and mailing address of the ISA/CA Canadian Intellectual Property Office Place du Portage I, C114 - 1st Floor, Box PCT 50 Victoria Street Gatineau, Quebec K1A 0C9 Facsimile No.: 819-953-2476	Authorized officer <p style="text-align: center;">Jean-Luc Robert (819) 953-0756</p>
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Form PCT/ISA/220 (July 2010)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P39194PC00	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below
International application No. PCT/CA2014/000133	International filing date (<i>day/month/year</i>) 24 February 2014 (24-02-2014)	(Earliest) Priority date (<i>day/month/year</i>) 01 March 2013 (01-03-2013)
Applicant G.B.D. CORP. ET AL		

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 5 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 43.6bis(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. 6

☐ 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/CA2014/000133

A. CLASSIFICATION OF SUBJECT MATTER

IPC: *A47L 9/28* (2006.01), *A47L 5/24* (2006.01), *A47L 5/36* (2006.01), *A47L 9/16* (2006.01)

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)
A47L 9/28 (2006.01), *A47L 5/24* (2006.01), *A47L 5/36* (2006.01), *A47L 9/16* (2006.01)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used)

Databases: Google, Google Patents, Total Patent, Canadian Patent database

Keywords: wheel base portable clean unit suction motor fluid flow path AC DC power vacuum removable battery cord first second dirty inlet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
XY	US7113847B2 (CHMURA ET AL.), 26 September 2006 (26-09-2006) - claim 3; fig. 1-3, 5; col. 5, lines 38-47; col. 9, lines 3-30	12-18, 41-42
Y	US8146201B2 (CONRAD), 03 April 2012 (03-04-2012) - claim 35; fig. 11, 13-14; col. 1, lines 15-24; col. 2, lines 11-13, 24-27; - col. 3, lines 61-64; col. 4, lines 1-10;	12-18
XY	US7377007B2 (BEST), 27 May 2008 (27-05-2008) - abstract; fig. 1-10B; col. 2, lines 26-28; col. 3, lines 28-31; col. 7, lines 42-63	12-18, 19-26, 32-33, 36-38, 41-42

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

* "A" "E" "L" "O" "P"	Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance earlier application or patent but published on or after the international filing date 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) document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed	"T" "X" "Y" "&"	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 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 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
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Date of the actual completion of the international search
23 May 2014 (23-05-2014)Date of mailing of the international search report
26 May 2014 (26-05-2014)Name and mailing address of the ISA/CA
Canadian Intellectual Property Office
Place du Portage I, C114 - 1st Floor, Box PCT
50 Victoria Street
Gatineau, Quebec K1A 0C9
Facsimile No.: 001-819-953-2476Authorized officer

Allan Tam (819) 953-3444

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/CA2014/000133

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
US7113847B2	26 September 2006 (26-09-2006)	US2003229421A1	11 December 2003 (11-12-2003)
		CA2427804A1	07 November 2003 (07-11-2003)
		CA2427804C	08 January 2008 (08-01-2008)
		DE60323557D1	30 October 2008 (30-10-2008)
		EP1360922A2	12 November 2003 (12-11-2003)
		EP1360922A3	08 June 2005 (08-06-2005)
		EP1360922B1	17 September 2008 (17-09-2008)
		HK1059719A1	06 February 2009 (06-02-2009)
		JP2004160164A	10 June 2004 (10-06-2004)
		JP4107999B2	25 June 2008 (25-06-2008)
		MXPA03003903A	17 February 2005 (17-02-2005)
US8146201B2	03 April 2012 (03-04-2012)	US2008134460A1	12 June 2008 (12-06-2008)
		AU2007332043A1	19 June 2008 (19-06-2008)
		AU2007332048A1	19 June 2008 (19-06-2008)
		AU2007332115A1	19 June 2008 (19-06-2008)
		AU2007332116A1	19 June 2008 (19-06-2008)
		AU2007332117A1	19 June 2008 (19-06-2008)
		CA2593950A1	12 June 2008 (12-06-2008)
		CA2593950C	15 January 2013 (15-01-2013)
		CA2675710A1	19 June 2008 (19-06-2008)
		CA2675711A1	19 June 2008 (19-06-2008)
		CA2675711C	26 June 2012 (26-06-2012)
		CA2675712A1	19 June 2008 (19-06-2008)
		CA2675713A1	19 June 2008 (19-06-2008)
		CA2675714A1	19 June 2008 (19-06-2008)
		CA2675714C	28 January 2014 (28-01-2014)
		CA2675715A1	19 June 2008 (19-06-2008)
		CA2675717A1	19 June 2008 (19-06-2008)
		CA2675720A1	19 June 2008 (19-06-2008)
		CA2675723A1	19 June 2008 (19-06-2008)
		CA2675725A1	19 June 2008 (19-06-2008)
		CA2677526A1	19 June 2008 (19-06-2008)
		CA2677526C	26 November 2013 (26-11-2013)
		CA2677527A1	19 June 2008 (19-06-2008)
		CA2677527C	01 October 2013 (01-10-2013)
		CA2677530A1	19 June 2008 (19-06-2008)
		CA2677530C	28 January 2014 (28-01-2014)
		CA2822255A1	19 June 2008 (19-06-2008)

**** Continued in Extra Sheet ****

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CA2014/000133

WO2008070962A1	19 June 2008 (19-06-2008)
WO2008070963A1	19 June 2008 (19-06-2008)
WO2008070964A1	19 June 2008 (19-06-2008)
WO2008070965A1	19 June 2008 (19-06-2008)
WO2008070966A1	19 June 2008 (19-06-2008)
WO2008070967A1	19 June 2008 (19-06-2008)
WO2008070968A1	19 June 2008 (19-06-2008)
WO2008070969A1	19 June 2008 (19-06-2008)
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WO2008070973A1	19 June 2008 (19-06-2008)
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WO2008109984A1	18 September 2008 (18-09-2008)
CN101657133A	24 February 2010 (24-02-2010)
CN101657134A	24 February 2010 (24-02-2010)
CN101657134B	08 May 2013 (08-05-2013)
CN101626715A	13 January 2010 (13-01-2010)
CN101626715B	25 July 2012 (25-07-2012)
CN101631494A	20 January 2010 (20-01-2010)
CN101631494B	25 April 2012 (25-04-2012)
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CN101662975A	03 March 2010 (03-03-2010)
CN101662976A	03 March 2010 (03-03-2010)
DE112007003039T5	29 October 2009 (29-10-2009)
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EP2120664A1	25 November 2009 (25-11-2009)
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EP2106233A1	07 October 2009 (07-10-2009)
EP2106233A4	26 May 2010 (26-05-2010)
EP2117400A1	18 November 2009 (18-11-2009)
EP2117400A4	23 June 2010 (23-06-2010)
EP2114231A1	11 November 2009 (11-11-2009)
EP2114231A4	23 June 2010 (23-06-2010)
EP2117401A1	18 November 2009 (18-11-2009)
EP2117401A4	23 June 2010 (23-06-2010)
EP2101622A1	23 September 2009 (23-09-2009)
EP2101622A4	23 June 2010 (23-06-2010)

**** Continued in Extra Sheet ****

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CA2014/000133

GB0911642D0	12 August 2009 (12-08-2009)
GB2458239A	16 September 2009 (16-09-2009)
GB2458239B	19 October 2011 (19-10-2011)
GB0911652D0	12 August 2009 (12-08-2009)
GB2457419A	19 August 2009 (19-08-2009)
GB2457419B	23 November 2011 (23-11-2011)
GB0911653D0	12 August 2009 (12-08-2009)
GB2457420A	19 August 2009 (19-08-2009)
GB2457420B	04 January 2012 (04-01-2012)
GB0911654D0	12 August 2009 (12-08-2009)
GB2458240A	16 September 2009 (16-09-2009)
GB2458240B	21 December 2011 (21-12-2011)
GB0911748D0	19 August 2009 (19-08-2009)
GB2458063A	09 September 2009 (09-09-2009)
GB2458063B	10 March 2010 (10-03-2010)
GB0911955D0	19 August 2009 (19-08-2009)
GB2458241A	16 September 2009 (16-09-2009)
GB2458241B	03 August 2011 (03-08-2011)
GB0911956D0	19 August 2009 (19-08-2009)
GB2458242A	16 September 2009 (16-09-2009)
GB0912079D0	19 August 2009 (19-08-2009)
GB2458243A	16 September 2009 (16-09-2009)
GB2458243B	04 April 2012 (04-04-2012)
JP2010512194A	22 April 2010 (22-04-2010)
JP2010512195A	22 April 2010 (22-04-2010)
JP2010512196A	22 April 2010 (22-04-2010)
JP2010512197A	22 April 2010 (22-04-2010)
KR20090112649A	28 October 2009 (28-10-2009)
KR20090106515A	09 October 2009 (09-10-2009)
KR20090106516A	09 October 2009 (09-10-2009)

US7377007B2	27 May 2008 (27-05-2008)	US2007226946A1	04 October 2007 (04-10-2007)
	AU2005218490A1		15 September 2005 (15-09-2005)
	AU2005218490B2		01 April 2010 (01-04-2010)
	GB0617158D0		11 October 2006 (11-10-2006)
	GB2425249A		25 October 2006 (25-10-2006)
	GB2425249B		08 August 2007 (08-08-2007)
	WO2005084511A1		15 September 2005 (15-09-2005)
	WO2005084511B1		24 November 2005 (24-11-2005)
	WO2005084511A8		26 May 2006 (26-05-2006)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: BERESKIN & PARR LLP/S.E.N.C.R.L., S.R.L. Scotia Plaza 40 King Street West, 40th Floor TORONTO, Ontario Canada, M5H 3Y2

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY
(PCT Rule 43bis.1)

Date of mailing <i>(day month year)</i>	26 May 2014 (26-05-2014)
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Applicant's or agent's file reference P39194PC00	FOR FURTHER ACTION See paragraph 2 below
International application No. PCT/CA2014/000133	International filing date <i>(day month year)</i> 24 February 2014 (24-02-2014)
Priority date <i>(day month year)</i> 01 March 2013 (01-03-2013)	
International Patent Classification (IPC) or both national classification and IPC IPC: <i>A47L 9/28</i> (2006.01), <i>A47L 5/24</i> (2006.01), <i>A47L 5/36</i> (2006.01), <i>A47L 9/16</i> (2006.01)	
Applicant G.B.D. CORP. ET AL.	

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☒ Box No. VIII Certain observations on the international application

Ident Jan 1, 2015
NS

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/CA Canadian Intellectual Property Office Place du Portage I, C114 - 1st Floor, Box PCT 50 Victoria Street Gatineau, Quebec K1A 0G9 Facsimile No.: 001-819-953-2476	Date of completion of this opinion 23 May 2014 (23-05-2014)	Authorized officer Allan Tam (819) 953-3444
---	---	---

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/CA2014/000133

Box No. 1 **Basis of this opinion**

1. With regard to the **language**, this opinion has been established 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)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43bis 1(a)).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

a. (means)

- ☐ on paper
☐ in electronic form

b. (time)

- ☐ in the international application as filed.
☐ together with the international application in electronic form
☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/CA2014/000133

Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement																											
1. Statement	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; vertical-align: top;">Novelty (N)</td> <td style="width: 40%; vertical-align: top;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">Claims</td> <td style="width: 60%;">1-11, 12-18, 27-31, 34-35, 39-40</td> <td style="width: 30%; text-align: right;">YES</td> </tr> <tr> <td>Claims</td> <td>19-26, 32-33, 36-38, 41-42</td> <td style="text-align: right;">NO</td> </tr> </table> </td> <td style="width: 30%;"></td> </tr> <tr> <td style="vertical-align: top;">Inventive step (IS)</td> <td style="vertical-align: top;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">Claims</td> <td style="width: 60%;">1-11, 27-31, 34-35, 39-40</td> <td style="width: 30%; text-align: right;">YES</td> </tr> <tr> <td>Claims</td> <td>12-18, 19-26, 32-33, 36-38, 41-42</td> <td style="text-align: right;">NO</td> </tr> </table> </td> <td></td> </tr> <tr> <td style="vertical-align: top;">Industrial applicability (IA)</td> <td style="vertical-align: top;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">Claims</td> <td style="width: 60%;">1-42</td> <td style="width: 30%; text-align: right;">YES</td> </tr> <tr> <td>Claims</td> <td>NONE</td> <td style="text-align: right;">NO</td> </tr> </table> </td> <td></td> </tr> </table>	Novelty (N)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">Claims</td> <td style="width: 60%;">1-11, 12-18, 27-31, 34-35, 39-40</td> <td style="width: 30%; text-align: right;">YES</td> </tr> <tr> <td>Claims</td> <td>19-26, 32-33, 36-38, 41-42</td> <td style="text-align: right;">NO</td> </tr> </table>	Claims	1-11, 12-18, 27-31, 34-35, 39-40	YES	Claims	19-26, 32-33, 36-38, 41-42	NO		Inventive step (IS)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">Claims</td> <td style="width: 60%;">1-11, 27-31, 34-35, 39-40</td> <td style="width: 30%; text-align: right;">YES</td> </tr> <tr> <td>Claims</td> <td>12-18, 19-26, 32-33, 36-38, 41-42</td> <td style="text-align: right;">NO</td> </tr> </table>	Claims	1-11, 27-31, 34-35, 39-40	YES	Claims	12-18, 19-26, 32-33, 36-38, 41-42	NO		Industrial applicability (IA)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">Claims</td> <td style="width: 60%;">1-42</td> <td style="width: 30%; text-align: right;">YES</td> </tr> <tr> <td>Claims</td> <td>NONE</td> <td style="text-align: right;">NO</td> </tr> </table>	Claims	1-42	YES	Claims	NONE	NO	
Novelty (N)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">Claims</td> <td style="width: 60%;">1-11, 12-18, 27-31, 34-35, 39-40</td> <td style="width: 30%; text-align: right;">YES</td> </tr> <tr> <td>Claims</td> <td>19-26, 32-33, 36-38, 41-42</td> <td style="text-align: right;">NO</td> </tr> </table>	Claims	1-11, 12-18, 27-31, 34-35, 39-40	YES	Claims	19-26, 32-33, 36-38, 41-42	NO																					
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Claims	1-42	YES																										
Claims	NONE	NO																										
2. Citations and explanations:	<p>D1: US7113847B2, 26 September 2006 (26-09-2006) - D1 is directed to a robotic vacuum with a removable portable vacuum and may be powered by a portable power source or standard power cord</p> <p>D2: US8146201B2, 03 April 2012 (03-04-2012) - D2 is directed to a surface cleaning apparatus with a cyclonic stage and removable wheeled base</p> <p>D3: US7377007B2, 27 May 2008 (27-05-2008) - D3 is directed to a vacuum cleaner with detachable vacuum module, cyclone separator and portable or corded power sources.</p> <p>Novelty</p> <p>Claims 1-11, 27-31, 34-35, 39-40 are novel and do comply with Article 33(2) of the PCT. Documents D1, D2, and D3 are considered to be the closest prior art. The subject matter of these claims differs from the prior art in that D1-D3 do not disclose: "a wheeled base comprising an AC suction motor" nor a "second dirty fluid inlet".</p> <p>Claims 12-18 are novel and do comply with Article 33(2) of the PCT. Document D1 is considered to be the closest prior art. The subject matter of these claims differs from the prior art in that D1 does not disclose: "cyclonic separation stage".</p> <p>Claims 19-26, 32-33, 36-38, and 41-42 are not novel and do not comply with Article 33(2) of the PCT.</p> <p>With respect to independent claim 19, D3 discloses:</p> <p>Claim 19 describes a surface cleaning apparatus comprising:</p> <ul style="list-style-type: none"> a) a wheeled based [D3: fig.2, ref.14, 32]; b) a portable cleaning unit removably mounted on the wheeled base and comprising at least one cyclonic separation stage and a suction motor [D3: fig.1-2, 5, ref.48; abstract; col.2, lines 26-28]; c) a first fluid flow path extending from a first dirty fluid inlet to a clean air outlet of the surface cleaning apparatus [D3: fig.5, ref.78, 80, inlet and outlet] the first fluid flow path comprising an upstream portion that extends from the dirty fluid inlet to the at least one cyclonic separation stage and the at least one cyclonic separation stage and the suction motor are positioned in the first fluid flow path [D3: fig.3, hose 58, motor 68, cyclonic separator 48]; d) wherein the cyclonic separation stage comprises a cyclone chamber and a material collection chamber, the material collection chamber is removable from the portable cleaning unit while the portable cleaning unit is mounted on the wheeled base [D3: fig.3-4, cyclonic separator 48, dirt cup 50, col.3, lines 28-31, dirt cup removably mounted to portable cleaning module]. <p>Dependent claims 20-26, 32-33, and 36-38 are considered to provide implementation details and design choices without adding any subject matter distinguishable over the prior art found in D3 and in light of the common general knowledge in the art.</p> <p>**** Continued in Supplemental Box ****</p>																											

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/CA2014/000133

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claims 40 and 42 do not comply with Rule 6.2(a) of the PCT. Reference is made to the description for completeness and clarity, rather than claiming the subject matter in explicit terms.

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/CA2014/000133

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: V

Novelty (cont.)

With respect to claim 41, D1 discloses:

Claim 41 describes a surface cleaning apparatus comprising:

- a) a wheeled base connectable to a source of AC current [D1: fig. 5, col. 9, lines 3-36];
- b) a portable cleaning unit removably mounted on the wheeled base [D1: fig. 3, 5, ref. 20] [D2: fig. 13-14, col. 2, lines 11-13] and comprising a first energy storage member and a suction motor [D1: fig. 2-3, 5, "blower"], the portable cleaning unit operable on DC current supplied by the first energy storage member [D1: fig. 3, 5, ref. 56; col. 5, lines 46-47] when the portable cleaning unit is removed from the wheeled base [D1: col. 5, lines 38-45];
- c) the portable cleaning unit electrically connectable to the wheeled base when mounted on the wheeled base whereby the suction motor is operable on AC current supplied by the source when the portable cleaning unit is mounted on the wheeled base [D1: col. 9, lines 22-25, vacuum may be power by "standard utility power via the power cord...", fig. 5 etc.];
- d) a fluid flow path extending from a dirty fluid inlet to a clean air outlet of the surface cleaning apparatus and comprising the suction motor [D1: fig. 2].

Similarly, D3 is also considered to disclose the subject matter of claim 41: [D3: fig. 8, col. 7, lines 42-63, plug 101 provides power to motor 106 in foot assembly 14], [D3: fig. 1-2, 5, ref. 48, abstract, col. 2, lines 26-28], [D3: fig. 5, ref. 78, 80, inlet and outlet].

Dependent claim 42 is considered to provide implementation details and design choices without adding any subject matter distinguishable over the prior art found in D1 and D3 and in light of the common general knowledge in the art.

Inventive Step

Claims 12-18, 19-26, 32-33, 36-38, and 41-42 **do not comply with Article 33(3) of the PCT**. The subject matter of these claims do not involve an inventive step in view of D1-D3 and in light of common general knowledge in the art.

Given the above objections, claims 19-26, 32-33, 36-38, and 41-42 are also considered to lack an inventive step in light of the described prior art and thus fail to comply with Article 33(3) of the PCT.

With respect to Independent claim 12, D1 describes:

Claim 12 describes a surface cleaning apparatus comprising:

- a) a wheeled base connectable to a source of current [D1: fig. 5, col. 9, lines 3-30];
- b) a portable cleaning unit removably mounted on the wheeled base [D1: fig. 3, 5, ref. 20],
a first energy storage member [D1: fig. 3, 5, ref. 56; col. 5, lines 46-47],
a portable cleaning unit suction motor that is operable on DC power [D1: col. 5, lines 38-45];
- c) a fluid flow path extending from a first dirty fluid inlet to a clean air outlet of the surface cleaning apparatus [D1: fig. 2, ref. 30, 40, claim 3];
- d) wherein the portable cleaning unit suction motor is operable on DC power when removed from the wheeled base and is operable on power provided by the wheeled base when mounted on the wheeled base [D1: fig. 2, 3, 5].

D1 does not explicitly describe a "cyclonic separation stage" however such techniques of dirt separation are well known to a person skilled in the art as exemplified in D2 and D3 [D2: col. 2, lines 24-27] [D3: fig. 1, 5, ref. 48].

Dependent claims 13-18 are considered to provide implementation details and design choices without adding any subject matter distinguishable over the prior art found in D1-3 and in light of the common general knowledge in the art.

Industrial Applicability

The subject matter of claims 1-42 is considered to be industrially applicable and thus **complies with the requirements of Article 33(4) of the PCT**.

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:	
BERESKIN & PARR LLP/S.E.N.C.R.L. S.R.L. Scotia Plaza 40 King Street West 40th Floor TORONTO, Ontario Canada, M5H 3Y2	
<div style="border: 2px solid black; padding: 5px; display: inline-block;"> RECEIVED AUG 01 2017 BERESKIN & PARR LLP LOCATION: 7335 DELIVER TO: 543 </div>	

PCT

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT AND
THE WRITTEN OPINION OF THE INTERNATIONAL
SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Applicant's or agent's file reference P49931PC00 - 10452	Date of mailing (day/month/year) 21 July 2017 (21-07-2017) <i>ent ms</i>
International application No. PCT/CA2017/050436	International filing date (day/month/year) 10 April 2017 (10-04-2017)
Applicant OMACHRON INTELLECTUAL PROPERTY INC.	

1.	☒	The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith. Filing of amendments and statement under Article 19: <i>Adopted Sept 21, 2017 MS</i> The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46). When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report. How? Directly to the International Bureau of WIPO preferably through ePCT or on paper to, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 338 82 70 For more detailed instructions, see PCT Applicant's Guide, International Phase, paragraphs 9.004 to 9.011.
2.	☐	The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.
3.	☐	With regard to any protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the any request to forward the texts of both the protest and the decision thereon to the designated Offices. ☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.
4.	☐	Reminders The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. These comments will be made available to the public after international publication. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau before the completion of the technical preparations for international publication (Rules 90bis.1 and 90bis.3). Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices. In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months. For details about the applicable time limits, Office by Office, see www.wipo.int/pct/en/texts/time_limits.html and the <i>PCT Applicant's Guide, National Chapters</i> . Within 19 months from the priority date, the applicant may request that a supplementary international search be carried out by a different International Searching Authority that offers this service (Rule 45bis.1). The procedure for requesting supplementary international search is described in the <i>PCT Applicant's Guide, International Phase, paragraphs 8.006-8.032</i> .

Name and mailing address of the ISA/CA Canadian Intellectual Property Office Place du Portage I, C114 - 1st Floor, Box PCT 50 Victoria Street Gatineau, Quebec K1A 0C9 Facsimile No.: 819-953-2476	Authorized officer Chantal Hébert (819) 639-4268
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Form PCT/ISA/220 (July 2014)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:
BERESKIN & PARR LLP/S.E.N.C.R.L., S.R.L.
Scotlia Plaza
40 King Street West
40th Floor
TORONTO, Ontario
Canada, M5H 3Y2

Date of mailing 21 July 2017 (21-07-2017)
(day/month/year)

Applicant's or agent's file reference
P49931PC00

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/CA2017/050436

International filing date (day/month/year)

10 April 2017 (10-04-2017)

Priority date (day/month/year)

11 April 2016 (11-04-2016)

International Patent Classification (IPC) or both national classification and IPC

IPC: *A47L 9/16* (2006.01), *A47L 5/26* (2006.01)

Applicant

OMACHRON INTELLECTUAL PROPERTY INC.

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☒ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☒ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

dd Feb 11, 2018 m5

Name and mailing address of the ISA/CA
Canadian Intellectual Property Office
Place du Portage I, C114 - 1st Floor, Box PCT
50 Victoria Street
Gatineau, Québec K1A 0C9
Facsimile No.: 001-819-953-2476

Date of completion of this opinion

13 July 2017 (13-07-2017)

Authorized officer

Sean Wilkinson (819) 639-4314

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No
PCT/CA2017/050436

Box No 1

Basis of this opinion

1. With regard to the **language**, this opinion has been established 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)).
2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43bis.1(a)).
3. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing:
 - a. ☐ forming part of the international application as filed:
 - ☐ in the form of an Annex C/ST.25 text file.
 - ☐ on paper or in the form of an image file.
 - b. ☐ furnished together with the international application under PCT Rule 13ter.1(a) for the purposes of international search only in the form of an Annex C/ST.25 text file.
 - c. ☐ furnished subsequent to the international filing date for the purposes of international search only:
 - ☐ in the form of an Annex C/ST.25 text file (Rule 13ter.1(a)).
 - ☐ on paper or in the form of an image file (Rule 13ter.1(b) and Administrative Instructions, Section 713).
4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
5. Additional comments:

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/CA2017/050436

Box No. IV Lack of unity of invention

1. ☐ In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has, within the applicable time limit:
- ☐ paid additional fees
 - ☐ paid additional fees under protest and, where applicable, the protest fee
 - ☐ paid additional fees under protest but the applicable protest fee was not paid
 - ☒ not paid additional fees
2. ☐ This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.
3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is
- ☐ complied with.
 - ☒ not complied with for the following reasons:

The claims are directed to a plurality of inventive concepts as follows:

Group A - Claims 1-12 are directed to a dirty air inlet passage that is position above the cyclone unit axis, ; and

Group B - Claims 13-22 are directed to an actuator that opens a door positioned at the front end of a cyclone unit.

The claims must be limited to one inventive concept as set out in PCT Rule 13 .

4. Consequently, this opinion has been established in respect of the following parts of the international application:
- ☐ all parts.
 - ☒ the parts relating to claim Nos. 1-12

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/CA2017/050436

Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1. Statement			
Novelty (N)	Claims 1-2	YES	
	Claims 1-11	NO	
Inventive step (IS)	Claims 1-2	YES	
	Claims 1-11	NO	
Industrial applicability (IA)	Claims 1-12	YES	
	Claims none	NO	
2. Citations and explanations:			
D1: CN204363891U 3 June 2015 (03-06-2015)			
D2: US2015230677A1 20 August 2015 (20-08-2015)			
D3: US2011/0289719A1 1 December 2011 (01-12-2011)			
NOVELTY(N) (Group A, Claims 1-12)			
<p>Claims 1-11 are not novel and therefore do not comply with PCT Article 33(2). Documents D1 (1,9-10), D2(1-4,7,9-10) and D3(1,5-11) disclose the claimed subject matter.</p> <p>With regard to claim 1, D1 teaches a hand vacuum cleaner having a front end having a dirty air inlet(11; Fig. 1-2), a rear end (12), a clean air outlet(as a vacuum is known to have), an upper end and a bottom (see Fig. 1-2), the hand vacuum cleaner comprising: a) a main body (1) comprising an upper end having a dirty air inlet, a lower end, a front end and a rear end, the main body housing a suction motor and fan assembly (see Abstract), the suction motor and fan assembly having a suction motor axis of rotation ; and, b) a cyclone unit (14) comprising a cyclone having a cyclone axis of rotation , a front end having a cyclone air inlet (132; Fig. 3) a longitudinally spaced apart rear end having a cyclone air outlet (15), and a sidewall having an upper portion and a lower portion ; wherein when the hand vacuum cleaner is oriented with the cyclone underneath the upper end, the cyclone axis of rotation is generally horizontal , and wherein the dirty air inlet comprises an inlet passage having a longitudinal passage axis that is generally linear and that is positioned above the cyclone axis of rotation when the hand vacuum cleaner is oriented with the cyclone underneath the upper end (see Fig. 2).</p> <p>Similarly, in regards to claim 1, D2 teaches the claimed generally linear dirty air inlet (24), clean air outlet (as a vacuum is known to have), an upper end and a bottom (see Figures), main body(14), suction motor (paragraph 25), cyclone unit (30) with axis of rotation below air inlet longitudinal passage axis(see Fig. 4).</p> <p>Similarly, in regards to claim 1, D3 teaches the claimed generally linear dirty air inlet (69), clean air outlet(as a vacuum is known to have), an upper end and a bottom (see Fig. 5, top end is on right side), main body(see Fig. 8), suction motor (M; Fig. 5), cyclone unit (107) with axis of rotation below air inlet longitudinal passage axis(see Fig. 5).</p> <p>In regards to claims 2,4, D2 teaches that the inlet is above the cyclone and that the cyclone air inlet is in the upper portion of the cyclone (see Fig. 4).</p> <p>In regards to claim 3, D2 teaches an openable door (62; paragraph 25).</p> <p>In regards to claims 5-6, D3 teaches the claimed motor axis (see Fig. 5).</p> <p>In regards to claim 7, D2 (paragraph 35) and D3 (Fig. 5) teach the claimed dirt discharge.</p>			
Continued in Supplemental Box.			

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/CA2017/050436

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claim 1 does not comply with PCT Article 6. The claim shall be clear and concise. It is not clear if the main body dirty air inlet is the same or different than the dirty air inlet already defined in the claims.

Claim 1 does not comply with PCT Article 6. The claim shall be clear and concise. At line 12 of claim 1, it is not clear which dirty air inlet is being referred to.

Claim 2 does not comply with PCT Article 6. The claim shall be clear and concise. The claim ends in two periods.

Claim 12 does not comply with PCT Article 6. This claim is unclear. The double inclusion of any element renders a claim indefinite. The expression "a front operable door" has already been defined previously in the claims (see Claim 3) and should therefore be referred to using a definite article.

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/CA2017/050436

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: Box V
Novelty Continued

In regards to claim 8, D3 teaches the claimed parallel motor and cyclonic axis's.

In regards to claims 9-10, D1 (see Figures), D2 (see Figures) and D3 (see Figures) teach the claimed handle and removable cyclone.

In regards to claim 11, D2 (paragraph 26) and D3 (see Fig. 5) teach the claimed air conduit.

Therefore, claims 1-11 are not novel.

Claim 12 is novel and therefore complies with PCT Article 33(2). Document D2 is considered to represent the closest prior art. Document D1 discloses a hand vacuum with an attachable conduit (paragraph 26). However, none of the cited documents discloses that the rigid air flow conduit inhibits opening of a front openable door of the cyclone unit when the rigid air flow conduit is attached to the inlet passage of the hand vacuum cleaner. Claims 12 is therefore novel.

INVENTIVE STEP(IS) (Group A, Claims 1-12)

Claims 1-11 do not involve an inventive step and therefore do not comply with PCT Article 33(3). Given the above novelty objection, claims 1-11 do not involve an inventive step.

INDUSTRIAL APPLICABILITY(IA) (Group A, Claims 1-12)

The subject matter of claims 1-12 is considered to be industrially applicable and thus complies with the requirements of PCT Article 33(4).

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P49931PC00	FOR FURTHER ACTION <div style="float: right; font-size: small;">see Form PCT/ISA/220 as well as, where applicable, item 5 below</div>	
International application No. PCT/CA2017/050436	International filing date (<i>day/month/year</i>) 10 April 2017 (10-04-2017)	(Earliest) Priority date (<i>day/month/year</i>) 11 April 2016 (11-04-2016)
Applicant OMACHRON INTELLECTUAL PROPERTY 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 5 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(h)).

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 43.6bis(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. 6

☐ 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/CA2017/050436

Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of the first sheet)
<p>This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:</p> <p>1. ☐ Claim Nos.: because they relate to subject matter not required to be searched by this Authority, namely:</p> <p>2. ☐ Claim 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:</p> <p>3. ☐ Claim Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).</p>	
Box No. III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
<p>This International Searching Authority found multiple inventions in this international application, as follows: The claims are directed to a plurality of inventive concepts as follows: Group A - Claims 1-12 are directed to a dirty air inlet passage that is position above the cyclone unit axis. ; and Group B - Claims 13-22 are directed to an actuator that opens a door positioned at the front end of a cyclone unit. The claims must be limited to one inventive concept as set out in PCT Rule 13.</p> <p>1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.</p> <p>2. ☐ As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.</p> <p>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 claim Nos.:</p> <p>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 claim Nos.:</p> <p>1-12</p> <p>Remark on Protest</p> <p>☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.</p> <p>☐ 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.</p> <p>☐ No protest accompanied the payment of additional search fees.</p>	

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2017/050436A. CLASSIFICATION OF SUBJECT MATTER
IPC: A47L 9/16 (2006.01), A47L 5/26 (2006.01)

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)
IPC: A47L 9/16, A47L 5/26, A47L 5/24

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used)
Questel Orbit (FumPat)
Keywords: handheld or hand or hand held or hand-held, door, empty, cyclon+ or centrif+

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CN204363891U (Zhou, G) 3 June 2015 (03-06-2015) *Abstract; Fig. 1-3*	1,9-10
X	US2015230677A1 (Andrikanich, J) 20 August 2015 (20-08-2015) *Abstract; Fig. 1-11; paragraph 25*	1-4,7,9-10
X	US2011/0289719A1 (Han, J et al.) 1 December 2011 (01-12-2011) *Abstract; Fig. 5,12-14; paragraph 64-65 *	1,5-11
A	JP2008206613A (Kamimura, T) 11 September 2008 (11-09-2008) *Abstract; Fig. 7 *	1-12
A	JP2002085297A (Ohara, N) 26 March 2002 (26 March 2002) *Abstract; Fig. 1-5*	1-12

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

* Special categories of cited documents:	"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
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
"E" earlier application or patent but published on or after the international filing date	"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
"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)	"&" document member of the same patent family
"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	

Date of the actual completion of the international search
28 June 2017 (28-06-2017)Date of mailing of the international search report
21 July 2017 (21-07-2017)Name and mailing address of the ISA/CA
Canadian Intellectual Property Office
Place du Portage 1, C114 - 1st Floor, Box PCT
50 Victoria Street
Gatineau, Québec K1A 0G9
Facsimile No.: 819-953-2476Authorized officer
Sean Wilkinson (819) 639-4314

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CA2017/050436

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO2015129387A1 (Sekine, K. et al.) 03 September 2015 (03-09-2015) *Abstract; Fig. 1-5*	1-12
A	CN202739907U (Jun, G) 20 February 2013 (20-02-2013) *Abstract; Fig. 1-3*	1-12
T	CN205671986U (Gian, Z) 09 November 2016 (09-11-2016) *Abstract; Fig. 1-10*	1-12
T	CN103816104U (Yabuki, Y et al.) 03 August 2016 (03-08-2016) *Abstract; Fig. 1-53*	1-12
A	US2007271724 (Haakan, M. et al.) 29 November 2007 (29-11-2007) *Abstract; Fig. 3-6; paragraph 14-16 *	1-12
A	US2010229324 A1 (Conrad, W) 16 September 2010 (16-09-2010) *Abstract; Fig. 4-5*	1-12

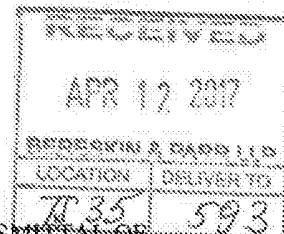
INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/CA2017/050436

Patent Document Cited in Search Report Date	Publication Date	Patent Family Member(s)	Publication Date
CN204363891U	03 June 2015 (03-06-2015)	None	
US2015230677A1	20 August 2015 (20-08-2015)	US2015230677A1 WO2015134177A2 WO2015134177A3	20 August 2015 (20-08-2015) 11 September 2015 (11-09-2015) 29 October 2015 (29-10-2015)
US2011289719A1	01 December 2011 (01-12-2011)	US2011289719A1 US8671510B2 EP2389849A2 EP2389849A3 EP2389849B1 EP2392244A2 EP2392244A3 EP2392244B1 KR20110132186A KR101224595B1 KR20130137580A KR101369234B1 KR20110132193A US201128972DA1	01 December 2011 (01-12-2011) 18 March 2014 (18-03-2014) 30 November 2011 (30-11-2011) 10 July 2013 (10-07-2013) 07 September 2016 (07-09-2016) 07 December 2011 (07-12-2011) 10 July 2013 (10-07-2013) 18 January 2017 (18-01-2017) 07 December 2011 (07-12-2011) 22 January 2013 (22-01-2013) 17 December 2013 (17-12-2013) 04 March 2014 (04-03-2014) 07 December 2011 (07-12-2011) 01 December 2011 (01-12-2011)
JP2008206613A	11 September 2008 (11-09-2008)	JP2008206613A JP4895326B2 CN101248972A	11 September 2008 (11-09-2008) 14 March 2012 (14-03-2012) 27 August 2008 (27-08-2008)
JP2002085297A	26 March 2002 (26-03-2002)	None	
WO2015129387A1	03 September 2015 (03-09-2015)	WO2015129387A1 JPVWO2015129387A1 JP6119915B2 TW201600059A	03 September 2015 (03-09-2015) 30 March 2017 (30-03-2017) 26 April 2017 (26-04-2017) 01 January 2016 (01-01-2016)
CN202735907U	20 February 2013 (20-02-2013)	None	
CN205671986U	09 November 2016 (09-11-2016)	None	
CN105816104A	03 August 2016 (03-08-2016)	CN105816104A JP2016137164A TW201630556A	03 August 2016 (03-08-2016) 04 August 2016 (04-08-2016) 01 September 2016 (01-09-2016)
US2007271724A1	29 November 2007 (29-11-2007)	US2007271724A1 US8225456B2 AT428340T AT503414T AT538708T BRPI0407257A BRPI0407257B1 DE202004021292 DE602004020587 DE602004032066 EP1594386A1 EP1594386B1 EP1969988A2 EP1969988A3 EP1969988B1 EP2201881A1 EP2201881B1 ES2310163T1 ES2310163T3 ES2325535T3 ES2380732T3 SE0300355D0 US2013031742A1 US8607408B2 WO2004069021A1	29 November 2007 (29-11-2007) 24 July 2012 (24-07-2012) 15 May 2009 (15-05-2009) 15 April 2011 (15-04-2011) 15 January 2012 (15-01-2012) 31 January 2006 (31-01-2006) 03 February 2015 (03-02-2015) 21 June 2007 (21-06-2007) 28 May 2009 (28-05-2009) 12 May 2011 (12-05-2011) 16 November 2005 (16-11-2005) 15 April 2009 (15-04-2009) 17 September 2008 (17-09-2008) 21 January 2009 (21-01-2009) 30 March 2011 (30-03-2011) 30 June 2010 (30-06-2010) 28 December 2011 (28-12-2011) 01 January 2009 (01-01-2009) 22 August 2011 (22-08-2011) 08 September 2009 (08-09-2009) 17 May 2012 (17-05-2012) 10 February 2003 (10-02-2003) 07 February 2013 (07-02-2013) 17 December 2013 (17-12-2013) 19 August 2004 (19-08-2004)
US2010229324A1	16 September 2010 (16-09-2010)	US2010229324A1 US8607407B2 CA2658019A1	16 September 2010 (16-09-2010) 17 December 2013 (17-12-2013) 11 September 2010 (11-09-2010)

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY



PCT

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT AND
THE WRITTEN OPINION OF THE INTERNATIONAL
SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

To: BERESKIN & PARR LLP/S.E.N.C.R.L., S.R.L. Scotia Plaza 40 King Street West 40th Floor TORONTO, Ontario Canada, M5H 3Y2	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;"> Date of mailing <i>(day/month/year)</i> </td> <td style="width: 50%; padding: 5px;"> 05 April 2017 (05-04-2017) ✓ </td> </tr> <tr> <td colspan="2" style="padding: 5px;"> Applicant's or agent's file reference P50367PC00 - 10452 </td> </tr> <tr> <td colspan="2" style="padding: 5px;"> FOR FURTHER ACTION </td> </tr> <tr> <td colspan="2" style="padding: 5px;"> See paragraphs 1 and 4 below </td> </tr> <tr> <td style="padding: 5px;"> International application No. PCT/CA2017/050014 </td> <td style="padding: 5px;"> International filing date <i>(day/month/year)</i> 06 January 2017 (06-01-2017) </td> </tr> <tr> <td colspan="2" style="padding: 5px;"> Applicant OMACHRON INTELLECTUAL PROPERTY INC. </td> </tr> </table>	Date of mailing <i>(day/month/year)</i>	05 April 2017 (05-04-2017) ✓	Applicant's or agent's file reference P50367PC00 - 10452		FOR FURTHER ACTION		See paragraphs 1 and 4 below		International application No. PCT/CA2017/050014	International filing date <i>(day/month/year)</i> 06 January 2017 (06-01-2017)	Applicant OMACHRON INTELLECTUAL PROPERTY INC.	
Date of mailing <i>(day/month/year)</i>	05 April 2017 (05-04-2017) ✓												
Applicant's or agent's file reference P50367PC00 - 10452													
FOR FURTHER ACTION													
See paragraphs 1 and 4 below													
International application No. PCT/CA2017/050014	International filing date <i>(day/month/year)</i> 06 January 2017 (06-01-2017)												
Applicant OMACHRON INTELLECTUAL PROPERTY INC.													

dd ext June 5/17

1.	☒	<p>The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.</p> <p>Filing of amendments and statement under Article 19:</p> <p>The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):</p> <p>When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.</p> <p>How? Directly to the International Bureau of WIPO preferably through ePCT or on paper to, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 338 82 70</p> <p>For more detailed instructions, see PCT Applicant's Guide, International Phase, paragraphs 9.004 B 9.011.</p>
2.	☐	<p>The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.</p>
3.	☐	<p>With regard to any protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:</p> <p>☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the any request to forward the texts of both the protest and the decision thereon to the designated Offices.</p> <p>☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.</p>
4.		<p>Reminders</p> <p>The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. These comments will be made available to the public after international publication. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established.</p> <p>Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau before the completion of the technical preparations for international publication (Rules 90bis.1 and 90bis.3).</p> <p>Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices. In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months. For details about the applicable time limits, Office by Office, see www.wipo.int/pct/en/texts/time_limits.html and the <i>PCT Applicant's Guide, National Chapters</i>.</p> <p>Within 19 months from the priority date, the applicant may request that a supplementary international search be carried out by a different International Searching Authority that offers this service (Rule 45bis.1). The procedure for requesting supplementary international search is described in the <i>PCT Applicant's Guide, International Phase, paragraphs 8.006-8.032</i>.</p>

Name and mailing address of the ISA/CA Canadian Intellectual Property Office Place du Portage I, C114 - 1st Floor, Box PCT 50 Victoria Street Gatineau, Quebec K1A 0C9 Facsimile No.: 819-953-2476	Authorized officer Maureen Matheson (819) 639-5186
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Form PCT/ISA/220 (July 2014)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P50367PC00	FOR FURTHER ACTION <div style="float: right; font-size: small;">see Form PCT/ISA/220 as well as, where applicable, item 5 below</div>	
International application No. PCT/CA2017/050014	International filing date (<i>day/month/year</i>) 06 January 2017 (06-01-2017)	(Earliest) Priority date (<i>day/month/year</i>) 08 January 2016 (08-01-2016)
Applicant OMACHRON INTELLECTUAL PROPERTY 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 11 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 43.6bis(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/CA2017/050014**Box No. II****Observations where certain claims were found unsearchable (Continuation of item 2 of the 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. ☐ Claim Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claim 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. ☐ Claim 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:

In view of document D1 (WO200469021) an a posteriori lack of unity exist among the claims as follows:

Group A: Claims 1-19

A hand held vacuum cleaner characterized by a horizontally extending cyclone chamber having an axis disposed below the axis of a suction motor which in turn is below an inlet conduit inlet

Continued on Extra 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 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 claim 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 claim Nos.:

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.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CA2017/050014

A. CLASSIFICATION OF SUBJECT MATTER
IPC: A47L 5/22 (2006.01), A47L 9/00 (2006.01)

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)
IPC (2006.01): A47L 5/24, A47L 5/*, A47L 7/*, A47L 9/*, B25F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used)
ORBIT (Fampat): remov*, handle, detach*, replac*, batter*, grip, energ*, electric*, storag*, cyclon*, filter, hous*, motor, vertical, upright*, fan, perpend*, orho*, door, actuat*, rear*, inlet, intake, entr*, power*, sourc*, suppl*, charg*, flow*, cool*, recharge*, station, base, charger, recharger,

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO2004069021 A1, (MIEPALK, H. et al.) 19 August 2004 (19-08-2004) *whole document*	1-4, 7, 9-13, 15-19, 20-22, 24-34, 37, 39-44, 120-129, 131-134, 163-171, 173, 175-182, 189-193, 196, 199, 200, 240-242, and 244
X	WO2006076363A2, (KHALIL, D.) 20 July 2006 (20-07-2006) *whole document*	106, 114, 118, 119, 120, 130, 135, 138, 163, 172, 183, 184, 192, 193, 196, 199, 200,
X	GB2440111A, (MINE, W. F. et al.) 23 January 2008 (23-01-2008) *whole document*	203-218
X	JP2013086228A, (SUZUKI, T.) 13 May 2013 (13-05-2013) *whole document*	222-224, and 226-228

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:	"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
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
"E" earlier application or patent but published on or after the international filing date	"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
"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)	"&" document member of the same patent family
"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	

Date of the actual completion of the international search
29 March 2017 (29-03-2017)

Date of mailing of the international search report
05 April 2017 (05-04-2017)

Name and mailing address of the ISA/CA
Canadian Intellectual Property Office
Place du Portage I, C114 - 1st Floor, Box PCT
50 Victoria Street
Gatineau, Quebec K1A 0C9
Facsimile No.: 819-953-2476

Authorized officer

Shawn De Salvo (819) 639-7843

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CA2017/050014

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO2008070973A1, (CONRAD, W. E.) 19 June 2008 (19-06-2008) *whole document*	
A	JP2006102034A, (YUASA, Y. et al.) 20 April 2006 (20-04-2006) *whole document*	
E	WO2017046557A1, (DIMBYLOW, S.) 23 March 2017 (23-03-2017) *whole document*	
E	WO2017046559A1, (DIMBYLOW, S.) 23 March 2017 (23-03-2017) *whole document*	
E	WO2017046560A1, (DIMBYLOW, S.) 23 March 2017 (23-03-2017) *whole document*	

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/CA2017/050014

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
WO2004069021A1	19 August 2004 (19-08-2004)	WO2004069021A1	19 August 2004 (19-08-2004)
		AT428340T	15 May 2009 (15-05-2009)
		AT503414T	15 April 2011 (15-04-2011)
		AT538708T	15 January 2012 (15-01-2012)
		BRPI0407257A	31 January 2006 (31-01-2006)
		BRPI0407257B1	03 February 2015 (03-02-2015)
		DE202004021292U1	21 June 2007 (21-06-2007)
		DE602004020587D1	28 May 2009 (28-05-2009)
		DE602004032068D1	12 May 2011 (12-05-2011)
		EP1594386A1	16 November 2005 (16-11-2005)
		EP1594386B1	15 April 2009 (15-04-2009)
		EP1969988A2	17 September 2008 (17-09-2008)
		EP1969988A3	21 January 2009 (21-01-2009)
		EP1969988B1	30 March 2011 (30-03-2011)
		EP2201881A1	30 June 2010 (30-06-2010)
		EP2201881B1	28 December 2011 (28-12-2011)
		ES2310163T1	01 January 2009 (01-01-2009)
		ES2310163T3	22 August 2011 (22-08-2011)
		ES2325535T3	08 September 2009 (08-09-2009)
		ES2380732T3	17 May 2012 (17-05-2012)
		SE0300355D0	10 February 2003 (10-02-2003)
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International application No.
PCT/CA2017/050014

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		GB2458240A	16 September 2009 (16-09-2009)
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Continuation of Box 3

Group B: Claims 20-44

A hand held vacuum cleaner characterized by an air treatment member and a handle

Group C: Claims 45-66

A hand held vacuum cleaner characterized by a pre-motor filter having longitudinally extending filter media extending upward

Group D: Claims 67-90

A hand held vacuum cleaner characterized by a longitudinally extending air treatment member and a vertical suction motor

Group E: Claims 91-105

A hand held vacuum cleaner characterized by a pre-motor filter disposed such that air travels from the rear side of the filter to the front side of the filter

Group F: Claims 106-119

A hand held vacuum cleaner characterized by a suction motor having a front end disposed forward of a pre-motor filter

Group G: Claims 120-134

A hand held vacuum cleaner characterized by a suction motor having an axis parallel and above an axis of an air treatment member

Group H: Claims 135-137

A hand held vacuum cleaner characterized by a suction motor having a rear end disposed forward of the rear portion of the pre-motor filter

Group I: Claims 138-140

A hand held vacuum cleaner characterized by a suction motor having a rear end which is a suction inlet

Group J: Claims 141-162

A hand held vacuum cleaner characterized by a pre-motor filter housing having an openable door

Group K: Claims 163-182

A hand held vacuum cleaner characterized by an air treatment member having an openable door

Group L: Claims 183-202

A hand held vacuum cleaner characterized by wherein an air treatment member and a pre-motor filter form a removable assembly

Group M: Claims 203-221

A hand held vacuum cleaner characterized by an air treatment member having a door which is actuated by an actuator located on vacuum main body

Group N: Claims 222-239

A hand held vacuum cleaner characterized by a removable handle having a battery pack

Group O: Claims 240-244

A hand held vacuum cleaner characterized by a top and bottom batteries located in a grip portion of a handle

Group P: Claims 245-246

A battery charger

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:
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PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY
(PCT Rule 43bis.1)

Date of mailing 5 April 2017 (05-04-2017)
(day/month/year)

Applicant's or agent's file reference
P50367PC00

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/CA2017/050014

International filing date (day/month/year)

06 January 2017 (06-01-2017)

Priority date (day/month/year)

08 January 2016 (08-01-2016)

International Patent Classification (IPC) or both national classification and IPC

IPC: A47L 5/22 (2006.01); A47L 9/00 (2006.01)

Applicant

OMACHRON INTELLECTUAL PROPERTY INC.

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☒ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☒ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☒ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later

For further options, see Form PCT/ISA/220.

dd Nov. 8/17 EA

Name and mailing address of the ISA/CA
Canadian Intellectual Property Office
Place du Portage I, C114 - 1st Floor, Box PCT
50 Victoria Street
Gatineau, Quebec K1A 0C9
Facsimile No.: 601-819-953-2476

Date of completion of this opinion

03 April 2017 (03-04-2017)

Authorized officer

Shawn De Salvo (819) 639-7843

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No
PCT/CA2017/050014

Box No I

Basis of this opinion

1. With regard to the **language**, this opinion has been established 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)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43bis.1(a)).

3. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing:

- a. ☐ forming part of the international application as filed:
☐ in the form of an Annex C/ST.25 text file.
☐ on paper or in the form of an image file.
b. ☐ furnished together with the international application under PCT Rule 13ter.1(a) for the purposes of international search only in the form of an Annex C/ST.25 text file.
c. ☐ furnished subsequent to the international filing date for the purposes of international search only:
☐ in the form of an Annex C/ST.25 text file (Rule 13ter.1(a)).
☐ on paper or in the form of an image file (Rule 13ter.1(b) and Administrative Instructions, Section 713).

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

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Box No. IV Lack of unity of invention

1. ☐ In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has, within the applicable time limit:

- ☐ paid additional fees
- ☐ paid additional fees under protest and, where applicable, the protest fee
- ☐ paid additional fees under protest but the applicable protest fee was not paid
- ☐ not paid additional fees

2. ☒ This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.

3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is

- ☐ complied with.
- ☒ not complied with for the following reasons:

An a posteriori analysis (see WO2004069021) has concluded that a vacuum cleaner comprising an air inlet conduit having an inlet conduit axis, a suction motor and fan assembly having a suction motor axis of rotation and air treatment member having a longitudinal axis generally parallel to the inlet conduit axis, wherein the inlet conduit axis intersects the suction motor is not new and therefore there is no common inventive link between the claims as identified in the following groups:

Group A: Claims 1-19

A hand held vacuum cleaner characterized by a horizontally extending cyclone chamber having an axis disposed below an inlet conduit inlet.

Group B: Claims 20-48

A hand held vacuum cleaner characterized by an air treatment member and a handle

Group C: Claims 45-66

A hand held vacuum cleaner characterized by a pre-motor filter having longitudinally extending filter media extending upward

Group D: Claims 67-90

A hand held vacuum cleaner characterized by a longitudinally extending air treatment member and a vertical suction motor

Group E: Claims 91-105

A hand held vacuum cleaner characterized by a pre-motor filter disposed such that air travels from the rear side of the filter to the front side of the filter

Group F: Claims 106-119

A hand held vacuum cleaner characterized by a suction motor having a front end disposed forward of a pre-motor filter

Group G: Claims 120-134

A hand held vacuum cleaner characterized by a suction motor having an axis parallel and above an axis of an air treatment member

Group H: Claims 135-137

A hand held vacuum cleaner characterized by a suction motor having a rear end disposed forward of the rear portion of the pre-motor filter

Continued in Supplemental Box

4. Consequently, this opinion has been established in respect of the following parts of the international application:

- ☒ all parts.
- ☐ the parts relating to claim Nos.

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Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1. Statement			
Novelty (N)	Claims See Below		YES
	Claims See Below		NO
Inventive step (IS)	Claims See Below		YES
	Claims See Below		NO
Industrial applicability (IA)	Claims 1-246		YES
	Claims NONE		NO
2. Citations and explanations:			
Novelty (N)			
Claims: 5, 6, 8, 14, 23, 35, 36, 38, 41, 45-105, 107-113, 115-117, 136, 137, 139-162, 174, 185-191, 194, 195, 197, 201, 202, 219-221, 225, 229-239, 243, 245, 246	YES		
Claims: 1-4, 7, 9-13, 15-22, 24-34, 37, 39, 40, 42-44, 106, 114, 118-135, 138, 163-173, 175-184, 192, 193, 196, 199, 200, 203-218, 222-224, 226-228, 240-242, and 244	NO		
Inventive Step (IS)			
Claims: 5, 8, 14, 23, 35, 36, 38, 41, 45-105, 107-113, 115-117, 136, 137, 139-162, 174, 185-191, 194, 195, 197, 201, 202, 219-221, 225, 229-239, 243, 245, 246	YES		
Claims: 1-4, 6, 7, 9-13, 15-22, 24-34, 37, 39, 40, 42-44, 106, 114, 118-135, 138, 163-173, 175-184, 192, 193, 196, 199, 200, 203-218, 222-224, 226-228, 240-242, and 244	NO		
CITATIONS:			
D1: WO2004069021 A1, (MIEFALK, H. et al.) 19 August 2004 (19-08-2004)			
D2: WO2006076363A2, (KHALIL, D.) 20 July 2006 (20-07-2006)			
D3: GB2440111A, (MINE, W. E. et al.) 23 January 2008 (23-01-2008)			
D4: JP2013086228A, (SUZUKI, T.) 13 May 2013 (13-05-2013)			
D5: JP2006102034A, (YUASA, Y. et al.) 20 April 2006 (20-04-2006)			
EXPLANATION:			
Group A: Claims 1-19			
NOVELTY (N)			
<p>Claims 1-4, 7, 9-13, 15-19 are not novel and therefore do not comply with PCT Article 33(2). Document D1 discloses a hand vacuum cleaner 11 comprising an air inlet conduit 27 having an inlet conduit axis, a suction motor and fan assembly 22 having a suction motor axis of rotation and a cyclone unit comprising a cyclone chamber 31 having a cyclone axis of rotation; wherein the inlet conduit axis is generally parallel to the cyclone axis and a projection of the inlet axis conduit intersect the suction motor. D1 discloses a first handle 21 and a removable second handle 10, each having energy storage units 23. The vacuum of D1 is a hand held and capable of being used in a range of orientations including upside down such as to vacuum an overhanging surface. In such an orientation the suction inlet axis of the vacuum of D1 is positioned above the suction motor axis which is positioned above the cyclone axis when the inlet is horizontal. Therefore, claims 1-4, 6, 7, 9-13, 15-18 are not novel.</p>			
[x] Continued in supplemental box			

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Box No. VI Certain documents cited

1. Certain published documents (Rules 43bis.1 and 70.10)

<u>Application No. Patent No.</u>	<u>Publication date (day/month/year)</u>	<u>Filing date (day/month/year)</u>	<u>Priority date (valid claim) (day/month/year)</u>
WO2017046557A1	23 March 2017 (23-03-2017)	17 September 2015 (17-09-2015)	17 September 2015 (17-09-2015)
WO2017046559A1	23 March 2017 (23-03-2017)	17 September 2015 (17-09-2015)	17 September 2015 (17-09-2015)
WO2017046560A1	23 March 2017 (23-03-2017)	17 September 2015 (17-09-2015)	17 September 2015 (17-09-2015)

2. Non-written disclosures (Rules 43bis.1 and 70.9)

<u>Kind of non-written disclosure</u>	<u>Date of non-written disclosure (day/month/year)</u>	<u>Date of written disclosure referring to non-written disclosure (day/month/year)</u>
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Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claims 1-256 do not comply with PCT Article 6. These claims are not concise. The number of claims shall be considered reasonable in consideration of the nature of the invention claimed (PCT Rule 6.1(a)).

Furthermore, claim 4 is a duplication of claim 3.

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: IV

Group I: Claims 138-140

A hand held vacuum cleaner characterized by a suction motor having a rear end which is a suction inlet

Group J: Claims 141-162

A hand held vacuum cleaner characterized by a pre-motor filter housing having an openable door

Group K: Claims 163-182

A hand held vacuum cleaner characterized by an air treatment member having an openable door

Group L: Claims 183-202

A hand held vacuum cleaner characterized by wherein an air treatment member and a pre-motor filter form a removable assembly

Group M: Claims 203-221

A hand held vacuum cleaner characterized by an air treatment member having a door which is actuated by an actuator located on vacuum main body

Group N: Claims 222-239

A hand held vacuum cleaner characterized by a removable handle having a battery pack

Group O: Claims 240-244

A hand held vacuum cleaner characterized by a top and bottom batteries located in a grip portion of a handle

Group P: Claims 245-246

A battery charger

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Continuation of: Box V

Claims 5, 6, 8, and 14, are novel and therefore comply with PCT Article 33(2). Document D1 is considered to represent the closest prior art. However, none of the cited documents discloses a vacuum having: a suction motor orthogonal to the inlet conduit axis; suction motor positioned forward of the pre-motor filter; or a handle attached to both a pre-motor filter housing and a suction motor housing. Claims 5, 8, and 14 are therefore novel.

INVENTIVE STEP (IS)

Claims 1-4, 7, 9-13, and 15-19, do not involve an inventive step and therefore do not comply with PCT Article 33(3). Given the above novelty objection, claims 1-4, 6, 7, 9-13, and 15-19, do not involve an inventive step.

Claims 5, 6, 8, and 14 involve an inventive step and therefore comply with PCT Article 33(3). A vacuum having a suction motor orthogonal to the inlet conduit axis, a suction motor positioned forward of the pre-motor filter, or a handle attached to both a pre-motor filter housing and a suction motor housing would not have been obvious to a person skilled in the art from the cited documents, when taken individually or in any combination. Claims 5, 6, 8, and 14 therefore involve an inventive step.

INDUSTRIAL APPLICABILITY (IA)

The subject matter of claims 1-19 is considered to be industrially applicable and thus complies with the requirements of PCT Article 33(4).

Group B: Claims 20-44

NOVELTY (N)

Claims 20-22, 24-34, 37, and 39-44 are not novel and therefore do not comply with PCT Article 33(2). Document D1 discloses a hand vacuum cleaner 11 having a front end and a rear end, the hand vacuum cleaner comprising an air inlet conduit 27 having an inlet conduit axis; a suction motor and fan assembly 22 having a suction motor axis of rotation; an air treatment member 31 having a front end and a rear end and a central longitudinal axis extending between the front and rear ends; and a handle 21 provided at the rear end of the hand vacuum cleaner, the handle having a hand grip portion that extends upwardly and forwardly, wherein the suction motor is positioned forward of the handle and the hand grip portion. Therefore, claims 20-22, 24-34, 37, and 39-44 are not novel.

Claims 23, 35, 36, and 38 are novel and therefore comply with PCT Article 33(2). Document D1 is considered to represent the closest prior art. However, none of the cited documents discloses a vacuum having: a handle attached to both a pre-motor filter housing and a suction motor housing; a suction motor orthogonal to the inlet conduit axis; the suction motor positioned above the pre-motor filter; the suction motor positioned forward of the pre-motor filter. Claims 23, 35, 36, and 38 are therefore novel.

INVENTIVE STEP (IS)

Claims 20-22, 24-34, 37, and 39-44 do not involve an inventive step and therefore do not comply with PCT Article 33(3). Given the above novelty objection, claims 20-22, 24-34, 37, and 39-44 do not involve an inventive step.

Claims 23, 35, 36, and 38 involve an inventive step and therefore comply with PCT Article 33(3). A vacuum having a handle attached to both a pre-motor filter housing and a suction motor housing, a suction motor orthogonal to the inlet conduit axis, a suction motor positioned above the pre-motor filter, or a suction motor positioned forward of the pre-motor filter would not have been obvious to a person skilled in the art from the cited documents, when taken individually or in any combination. Claims 23, 35, 36, and 38 therefore involve an inventive step.

INDUSTRIAL APPLICABILITY (IA)

The subject matter of claims 20-44 is considered to be industrially applicable and thus complies with the requirements of PCT Article 33(4).

Group C: Claims 45-66

NOVELTY (N)

Claims 45-66 are novel and therefore comply with PCT Article 33(2). Document D1 is considered to represent the closest prior art. Document D1 discloses a hand vacuum cleaner 11 comprising an air inlet conduit 27 having an inlet conduit axis, a suction motor and fan assembly 22 having a suction motor axis of rotation and a cyclone unit comprising a cyclone chamber 31 having a cyclone axis of rotation; wherein the inlet conduit axis is generally parallel to the cyclone axis and a projection of the inlet axis conduit intersect the suction motor. However, none of the cited documents discloses a vacuum having a pre-filter motor comprising longitudinally extending filter media having an axis extending upward. Claims 45-66 are therefore novel.

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: Box V

INVENTIVE STEP (IS)

Claims 45-66 involve an inventive step and therefore comply with PCT Article 33(3). A pre-filter motor comprising longitudinally extending filter media having an axis extending upward would not have been obvious to a person skilled in the art from the cited documents, when taken individually or in any combination. Claims 45-66 therefore involve an inventive step.

INDUSTRIAL APPLICABILITY (IA)

The subject matter of claims 45-66 is considered to be industrially applicable and thus complies with the requirements of PCT Article 33(4).

Group D: Claims 67-90

NOVELTY (N)

Claims 67-90 are novel and therefore comply with PCT Article 33(2). Document D1 is considered to represent the closest prior art. Document D1 discloses a hand vacuum cleaner 11 comprising an air inlet conduit 27 having an inlet conduit axis, a suction motor and fan assembly 22 having a suction motor axis of rotation and a cyclone unit comprising a cyclone chamber 31 having a cyclone axis of rotation; wherein the inlet conduit axis is generally parallel to the cyclone axis and a projection of the inlet axis conduit intersect the suction motor. However, none of the cited documents discloses a suction motor oriented vertically. Claims 67-90 are therefore novel.

INVENTIVE STEP (IS)

Claims 67-90 involve an inventive step and therefore comply with PCT Article 33(3). a vacuum having a longitudinally extending air treatment member and a suction motor having a vertically extending axis. A suction motor oriented vertically would not have been obvious to a person skilled in the art from the cited documents, when taken individually or in any combination. Claims 67-90 therefore involve an inventive step.

INDUSTRIAL APPLICABILITY (IA)

The subject matter of claims 67-90 is considered to be industrially applicable and thus complies with the requirements of PCT Article 33(4).

Group E: Claims 91-105

NOVELTY (N)

Claims 91-105 are novel and therefore comply with PCT Article 33(2). Document D1 is considered to represent the closest prior art. Document D1 discloses a hand vacuum cleaner 11 comprising an air inlet conduit 27 having an inlet conduit axis, a suction motor and fan assembly 22 having a suction motor axis of rotation and a cyclone unit comprising a cyclone chamber 31 having a cyclone axis of rotation; wherein the inlet conduit axis is generally parallel to the cyclone axis and a projection of the inlet axis conduit intersect the suction motor. However, none of the cited documents discloses a pre-motor filter media having a front side and a rear side wherein air exiting the air treatment member travels in a rearward direction to the rear side of the pre-motor then travels in a forward direction to the front side of the pre-motor filter media. Claims 91-105 are therefore novel.

INVENTIVE STEP (IS)

Claim 91-105 involves an inventive step and therefore complies with PCT Article 33(3). a vacuum having pre-motor filter media having a front side and a rear side wherein air exiting the air treatment member travels in a rearward direction to the rear side of the pre-motor then travels in a forward direction to the front side of the pre-motor filter media. A pre-motor filter media having a front side and a rear side wherein air exiting the air treatment member travels in a rearward direction to the rear side of the pre-motor then travels in a forward direction to the front side of the pre-motor filter media would not have been obvious to a person skilled in the art from the cited documents, when taken individually or in any combination. Claim 91-105 therefore involves an inventive step.

INDUSTRIAL APPLICABILITY (IA)

The subject matter of claims 91-105 is considered to be industrially applicable and thus complies with the requirements of PCT Article 33(4).

Group F: Claims 106-119

NOVELTY (N)

Claims 106, 114, 118, and 119 are not novel and therefore do not comply with PCT Article 33(2). Document D2 discloses vacuum having a suction motor and fan assembly 118 having a front end, a rear end and a suction motor axis of rotation; an air treatment member 116 having a front end and a rear end and a central longitudinal axis extending between the front and rear ends; and a pre-motor filter media 154 wherein the front end of the suction motor is forward of the pre-motor filter media. Therefore, claims 106, 114, and 119 are not novel.

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Continuation of: Box V

Claims 107-113 and 115-117 are novel and therefore comply with PCT Article 33(2). Document D2 is considered to represent the closest prior art. However, none of the cited documents discloses a pre-motor filter media having a front side and a rear side wherein air exiting the air treatment member travels in a rearward direction to the rear side of the pre-motor then travels in a forward direction to the front side of the pre-motor filter media; a pre-filter motor filter housing having a front openable door; a pre-filter motor having a front side visible when an openable door in a pre-filter motor housing is opened; a pre-filter motor having a height greater than the height of the air treatment member; or a suction motor positioned above an upper wall of the air treatment member. Claims 107-113 and 115-118 are therefore novel.

INVENTIVE STEP (IS)

Claims 106, 114, 118, and 119 do not involve an inventive step and therefore do not comply with PCT Article 33(3). Given the above novelty objection, claims 106, 114, 118, and 119 do not involve an inventive step.

Claims 107-113 and 115-117 involve an inventive step and therefore comply with PCT Article 33(3). A pre-motor filter media having a front side and a rear side wherein air exiting the air treatment member travels in a rearward direction to the rear side of the pre-motor then travels in a forward direction to the front side of the pre-motor filter media; a pre-filter motor filter housing having a front openable door; a pre-filter motor having a front side visible when an openable door in a pre-filter motor housing is opened; a pre-filter motor having a height greater than the height of the air treatment member; or a suction motor positioned above an upper wall of the air treatment member would not have been obvious to a person skilled in the art from the cited documents, when taken individually or in any combination. Claims 107-113 and 115-117 therefore involve an inventive step.

INDUSTRIAL APPLICABILITY (IA)

The subject matter of claims 106-119 is considered to be industrially applicable and thus complies with the requirements of PCT Article 33(4).

Group G: Claims 120-134

NOVELTY (N)

Claims 120-129, and 131-134 are not novel and therefore do not comply with PCT Article 33(2). Document D1 discloses a hand vacuum cleaner 11 comprising an air inlet conduit 27 having an inlet conduit axis, a suction motor and fan assembly 22 having a suction motor axis of rotation and a cyclone unit comprising a cyclone chamber 31 having a cyclone axis of rotation; wherein the inlet conduit axis is generally parallel to the cyclone axis and a projection of the inlet axis conduit intersect the suction motor. D1 discloses a first handle 21 and a removable second handle 19, each having energy storage units 23. The vacuum of D1 is a hand held and capable of being used in a range of orientations including upside down such as to vacuum an overhanging surface. In such an orientation the suction inlet axis of the vacuum of D1 is positioned above the suction motor axis which is positioned above the cyclone axis when the inlet is horizontal. Therefore, claims 120-129, and 131-134 are not novel.

Claims 120 and 130 are not novel and therefore do not comply with PCT Article 33(2). Document D2 discloses a vacuum having a suction motor and fan assembly 118 having a front end, a rear end and a suction motor axis of rotation; an air treatment member 116 having a front end and a rear end and a central longitudinal axis extending between the front and rear ends; and a pre-motor filter media 154 wherein the front end of the suction motor is forward of the pre-motor filter media. Therefore, claims 120 and 130 are not novel.

INVENTIVE STEP (IS)

Claims 120-134 do not involve an inventive step and therefore do not comply with PCT Article 33(3). Given the above novelty objection, claims 120-134 do not involve an inventive step.

INDUSTRIAL APPLICABILITY (IA)

The subject matter of claims 120-134 is considered to be industrially applicable and thus complies with the requirements of PCT Article 33(4).

Group H: Claims 135-137

NOVELTY (N)

Claim 135 is not novel and therefore does not comply with PCT Article 33(2). Document D2 discloses a vacuum having a suction motor and fan assembly 118 having a forward end, a rearward end and suction motor axis of rotation; an air treatment member 116 having a front end, a rear end and a central longitudinal axis extending between the front and rear ends; and a pre-motor filter media 154 having a forward portion and a rearward portion and the rear end of the suction motor is positioned forward of the rearward portion of the pre-motor filter media, wherein the suction motor axis of rotation and the central longitudinal axis are generally horizontal when the hand vacuum cleaner is positioned on a horizontal surface. Therefore, claim 135 is not novel.

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In case the space in any of the preceding boxes is not sufficient.

Continuation of: Box V

Claims 136 and 137 are novel and therefore comply with PCT Article 33(2). Document D2 is considered to represent the closest prior art. However, none of the cited documents discloses a pre-filter motor having a height greater than the height of an air treatment member. Claims 136 and 137 are therefore novel.

INVENTIVE STEP (IS)

Claim 135 does not involve an inventive step and therefore does not comply with PCT Article 33(3). Given the above novelty objection, claim 135 does not involve an inventive step.

Claims 136 and 137 involve an inventive step and therefore comply with PCT Article 33(3). A pre-filter motor having a height greater than the height of an air treatment member would not have been obvious to a person skilled in the art from the cited documents, when taken individually or in any combination. Claims 136 and 137 therefore involve an inventive step.

INDUSTRIAL APPLICABILITY (IA)

The subject matter of claims 135-137 is considered to be industrially applicable and thus complies with the requirements of PCT Article 33(4).

Group I: Claims 138-140

NOVELTY (N)

Claim 138 is not novel and therefore does not comply with PCT Article 33(2). Document D2 discloses a vacuum having a suction motor and fan assembly 118 having a forward end, a rearward end and suction motor axis of rotation; an air treatment member 116 having a front end, a rear end and a central longitudinal axis extending between the front and rear ends; and a pre-motor filter media 154 having a forward portion and a rearward portion wherein the rear end of the suction motor is an air inlet end of the suction motor. Therefore, claim 138 is not novel.

Claims 139 and 140 are novel and therefore comply with PCT Article 33(2). Document D2 is considered to represent the closest prior art. However, none of the cited documents discloses a pre-filter motor having a height greater than the height of an air treatment member. Claims 139 and 140 are therefore novel.

INVENTIVE STEP (IS)

Claim 138 does not involve an inventive step and therefore does not comply with PCT Article 33(3). Given the above novelty objection, claim 138 does not involve an inventive step.

Claims 139 and 140 involve an inventive step and therefore comply with PCT Article 33(3). A pre-filter motor having a height greater than the height of an air treatment member would not have been obvious to a person skilled in the art from the cited documents, when taken individually or in any combination. Claims 139 and 140 therefore involve an inventive step.

INDUSTRIAL APPLICABILITY (IA)

The subject matter of claims 138-140 is considered to be industrially applicable and thus complies with the requirements of PCT Article 33(4).

Group J: Claims 141-162

NOVELTY (N)

Claims 141-162 are novel and therefore comply with PCT Article 33(2). Document D1 is considered to represent the closest prior art. Document D1 discloses a hand vacuum cleaner 11 comprising an air inlet conduit 27 having an inlet conduit axis, a suction motor and fan assembly 22 having a suction motor axis of rotation and a cyclone unit comprising a cyclone chamber 31 having a cyclone axis of rotation, wherein the inlet conduit axis is generally parallel to the cyclone axis and a projection of the inlet axis conduit intersect the suction motor. D1 discloses a first handle 21 and a removable second handle 10, each having energy storage units 23. The vacuum of D1 is a hand held and capable of being used in a range of orientations including upside down such as to vacuum an overhanging surface. In such an orientation the suction inlet axis of the vacuum of D1 is positioned above the suction motor axis which is positioned above the cyclone axis when the inlet is horizontal. However, none of the cited documents discloses a pre-filter media housing having an openable door. Claims 141-162 are therefore novel.

INVENTIVE STEP (IS)

Claims 141-162 involve an inventive step and therefore comply with PCT Article 33(3). a filter housing having an openable door would not have been obvious to a person skilled in the art from the cited documents, when taken individually or in any combination. Claims 141-162 therefore involve an inventive step.

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INDUSTRIAL APPLICABILITY (IA)

The subject matter of claims 141-162 is considered to be industrially applicable and thus complies with the requirements of PCT Article 33(4).

Group K: Claims 163-182

NOVELTY (N)

Claims 163-171, 173, 175-182 are not novel and therefore do not comply with PCT Article 33(2). Document D1 discloses a hand vacuum cleaner comprising a suction motor and fan assembly 22 having a suction motor axis of rotation; an air treatment member 31 having a front end, a rear end, an openable door 47 and a central longitudinal axis extending between the front and rear ends; and a handle 21 having a hand grip portion wherein the hand grip portion extends upwardly and forwardly when the hand vacuum cleaner is oriented with the upper end above the lower end, wherein the central longitudinal axis intersects the openable door and the hand grip portion. Therefore, claims 163-166, 173, 175-182 are not novel.

Claims 163 and 172 are not novel and therefore do not comply with PCT Article 33(2). Document D2 discloses a hand vacuum cleaner comprising a suction motor and fan assembly 118 having a suction motor axis of rotation; an air treatment member 116 having a front end, a rear end, an openable door 134 and a central longitudinal axis extending between the front and rear ends; and a handle having a hand grip portion wherein the hand grip portion extends upwardly and forwardly when the hand vacuum cleaner is oriented with the upper end above the lower end, wherein the central longitudinal axis intersects the openable door and the hand grip portion and a pre-motor filter 154 wherein air travels forwardly from the pre-motor filter to the suction motor. Therefore, claims 163 and 172 are not novel.

Claim 174 is novel and therefore complies with PCT Article 33(2). Documents D1 and D2 are considered to represent the closest prior art. However, none of the cited documents discloses a dirt collection chamber external to a cyclone. Claim 174 is therefore novel.

INVENTIVE STEP (IS)

Claims 163-173, and 175-182 do not involve an inventive step and therefore do not comply with PCT Article 33(3). Given the above novelty objection, claims 163-173, and 175-182 do not involve an inventive step.

Claim 174 involves an inventive step and therefore complies with PCT Article 33(3). A dirt collection chamber external to a cyclone chamber would not have been obvious to a person skilled in the art from the cited documents, when taken individually or in any combination. Claim 174 therefore involves an inventive step.

INDUSTRIAL APPLICABILITY (IA)

The subject matter of claims 163-182 is considered to be industrially applicable and thus complies with the requirements of PCT Article 33(4).

Group L: Claims 183-202

NOVELTY (N)

Claims 183, 184, 192, 193, 196, 199, and 200 are not novel and therefore do not comply with PCT Article 33(2). Document D2 discloses a hand vacuum cleaner comprising a main body having an upper end, a lower end and a handle, the upper end having a dirty air inlet 164, the handle having a hand grip portion that extends upwardly and forwardly; a suction motor and fan assembly 118 having a suction motor axis of rotation; and an assembly removably mounted to the main body wherein the assembly comprises an air treatment member 116 and a pre-motor filter media 154. D2 discloses the air treatment member 116 having a longitudinal axis, the air treatment member 116 having an air inlet in an upper portion of the air treatment member from which air travels downward into the air treatment member. Therefore, claims 183, 184, 192, 193, 196, 199, and 200 are not novel.

Claims 185-191, 194, 195, 197, 198, 201, and 202 are novel and therefore comply with PCT Article 33(2). Document D2 is considered to represent the closest prior art. However, none of the cited documents discloses air traveling upwardly from the assembly to the main body, an air outlet provided in the upper surface or the rear of the assembly, the axis of the air treatment member intersecting the hand grip portion, or the handle being removably mounted to the vacuum. Claims 185-191, 194, 195, 197, 198, 201, and 202 are therefore novel.

INVENTIVE STEP (IS)

Claims 183, 184, 192, 193, 196, 199, and 200 do not involve an inventive step and therefore do not comply with PCT Article 33(3). Given the above novelty objection, claims 183, 184, 192, 193, 196, 199, and 200 do not involve an inventive step.

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International application No.

PCT/CA2017/050014

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: Box V

Claims 185-191, 194, 195, 197, 198, 201, and 202 involve an inventive step and therefore comply with PCT Article 33(3). Air traveling upwardly from the assembly to the main body; an air outlet provided in the upper surface or the rear of the assembly; the axis of the air treatment member intersecting the hand grip portion; or the handle being removably mounted to the vacuum would not have been obvious to a person skilled in the art from the cited documents, when taken individually or in any combination. Claims 185-191, 194, 195, 197, 198, 201, and 202 therefore involve an inventive step.

INDUSTRIAL APPLICABILITY (IA)

The subject matter of claims 183-202 is considered to be industrially applicable and thus complies with the requirements of PCT Article 33(4).

Group M: Claims 203-221

NOVELTY (N)

Claims 203-218 are not novel and therefore do not comply with PCT Article 33(2). Document D3 discloses a surface cleaning apparatus comprising a main body having a main body actuator 152 operable between an open position and a closed position; and an assembly removably mounted to the main body wherein the assembly comprises an air treatment member 102 having an openable door 116 and an assembly door lock 120, the assembly door lock comprising an actuation portion operable between an open position and a closed position and a lock portion operable between an engaged position in which the door is secured in a closed position and a disengaged position in which the door is openable wherein when the assembly is mounted to the main body, the main body actuator is operatively connected to the actuation portion of the assembly door lock whereby when the main body actuator is moved from the closed position to the open position, the actuation portion is moved to the open position and the lock portion is moved to the disengaged position. Therefore, claims 203-218 are not novel.

Claims 219-221 are novel and therefore comply with PCT Article 33(2). Document D3 is considered to represent the closest prior art. However, none of the cited documents discloses the front door at the front of the air treatment member or a handle removably mounted to the rear of the main body. Claims 219-221 are therefore novel.

INVENTIVE STEP (IS)

Claims 203-218 do not involve an inventive step and therefore do not comply with PCT Article 33(3). Given the above novelty objection, claims 203-218 do not involve an inventive step.

Claims 219-221 involve an inventive step and therefore comply with PCT Article 33(3). The front door at the front of the air treatment member or a handle removably mounted to the rear of the main body would not have been obvious to a person skilled in the art from the cited documents, when taken individually or in any combination. Claims 219-221 therefore involve an inventive step.

INDUSTRIAL APPLICABILITY (IA)

The subject matter of claims 203-221 is considered to be industrially applicable and thus complies with the requirements of PCT Article 33(4).

Group N: Claims 222-239

NOVELTY (N)

Claims 222-224, and 226-228 are not novel and therefore do not comply with PCT Article 33(2). Document D4 discloses a handle 1 with integrated rechargeable battery pack 3 comprising a grip portion having top and bottom ends, the grip portion being configured to be gripped by a hand of a user between the top and bottom ends; at least one rechargeable battery coupled to at least one of the top and bottom ends of the grip portion; at least one mechanical attachment 13, 14, coupled to at least one of the top and bottom ends of the grip portion for mechanically engaging and attaching to a powered device; and at least one electrical connector coupled to at least one of the top and bottom ends of the grip portion for electrically connecting the at least one rechargeable battery to the powered device. Therefore, claims 222-224, and 226-228 are not novel.

Claims 225 and 229-239 are novel and therefore comply with PCT Article 33(2). Document D4 is considered to represent the closest prior art. However, none of the cited documents discloses separate top and bottom battery housings; control button circuitry configured to receive identification of the powered device; or an air flow path. Claims 222, 223 are therefore novel.

INVENTIVE STEP (IS)

Claims 222-224, and 226-228 do not involve an inventive step and therefore do not comply with PCT Article 33(3). Given the above novelty objection, claims 222-224, and 226-228 do not involve an inventive step.

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/CA2017/050014

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: Box V

Claims 225 and, 229-239 involve an inventive step and therefore comply with PCT Article 33(3). Separate two and bottom battery housings; control button circuitry configured to receive identification of the powered device; or an air flow path would not have been obvious to a person skilled in the art from the cited documents, when taken individually or in any combination. Claims 225 and, 229-239 therefore involve an inventive step.

INDUSTRIAL APPLICABILITY (IA)

The subject matter of claims 222-239 is considered to be industrially applicable and thus complies with the requirements of PCT Article 33(4).

Group O: Claims 240-244

NOVELTY (N)

Claims 240-242 and 244 are not novel and therefore do not comply with PCT Article 33(2). Document D1 discloses A vacuum cleaning apparatus comprising a vacuum unit having a back end and a front end and including at least suction motor 22 and a debris collector 31 between the back end and the front end; and a removable handle 10 proximate the back end of the vacuum unit the handle including a grip portion, a top rechargeable battery at a top end of the grip portion, and a bottom rechargeable battery at a bottom end of the grip portion, wherein the top and bottom rechargeable batteries are arranged such that a center of gravity is proximate a twist axis of the vacuum unit. Therefore, claims 240-242 and 244 are not novel.

Claims 243 is novel and therefore comply with PCT Article 33(2). Document D1 is considered to represent the closest prior art. However, none of the cited documents discloses a vacuum wand which attaches to the vacuum wherein the twist axis extends along the vacuum wand. Claim 243 is therefore novel.

INVENTIVE STEP (IS)

Claims 240-242 and 244 do not involve an inventive step and therefore do not comply with PCT Article 33(3). Given the above novelty objection, claims 240-242 and 244 do not involve an inventive step.

Claim 243 involves an inventive step and therefore complies with PCT Article 33(3). A vacuum wand which attaches to the vacuum wherein the twist axis extends along the vacuum wand would not have been obvious to a person skilled in the art from the cited documents, when taken individually or in any combination. Claim 243 therefore involves an inventive step.

INDUSTRIAL APPLICABILITY (IA)

The subject matter of claims 240-244 is considered to be industrially applicable and thus complies with the requirements of PCT Article 33(4).

Group P: Claims 245 and 246

NOVELTY (N)

Claims 245 and 246 are novel and therefore comply with PCT Article 33(2). Document D5 is considered to represent the closest prior art. Document D5 discloses an air cooled battery charger assembly comprising a battery charging unit 2 including an air flow device 20; and a vacuum unit 1 with integrated rechargeable battery pack 12 and an airflow path extending through the vacuum to cool the rechargeable battery pack during charging. However, none of the cited documents discloses a handle configured to be attached to the charging unit wherein the battery pack is disposed in the handle. Claims 245 and 246 are therefore novel.

INVENTIVE STEP (IS)

Claims 245 and 246 involve an inventive step and therefore comply with PCT Article 33(3). A handle configured to be attached to the charging unit wherein the battery pack is disposed in the handle would not have been obvious to a person skilled in the art from the cited documents, when taken individually or in any combination. Claims 245 and 246 therefore involve an inventive step.

INDUSTRIAL APPLICABILITY (IA)

The subject matter of claims 245 and 246 is considered to be industrially applicable and thus complies with the requirements of PCT Article 33(4).

Electronic Acknowledgement Receipt

EFS ID:	30575570
Application Number:	15085830
International Application Number:	
Confirmation Number:	9332
Title of Invention:	SURFACE CLEANING APPARATUS
First Named Inventor/Applicant Name:	Wayne Ernest Conrad
Customer Number:	1059
Filer:	Philip C. Mendes da Costa/Nakita D'souza
Filer Authorized By:	Philip C. Mendes da Costa
Attorney Docket Number:	10452-P46958US04
Receipt Date:	05-OCT-2017
Filing Date:	30-MAR-2016
Time Stamp:	14:05:57
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Non Patent Literature	NPL41_KR1020060118795A_EN G.pdf	78359 8a79e85a9b6ee790fe3efd1a1f287c85e0b7 75e2	no	1

Warnings:

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2	Non Patent Literature	NPL42_KR1020060118800A_EN G.pdf	133727	no	12
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11	Non Patent Literature	NPL1_WO2010147247A1_ENG.pdf	100489	no	9
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15	Non Patent Literature	NPL5_WO2015129387A1_eng.pdf	113968	no	6
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Information:					
24	Non Patent Literature	NPL14_IDS_20140526.pdf	4216098	no	11
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25	Non Patent Literature	NPL15_ISR_WO_20170721.pdf	3228192	no	12
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Warnings:					
Information:					
26	Non Patent Literature	NPL16_ISR_WO_20170405.pdf	8172342	no	26
			b6e61d91bf8d49c74a9bb3adeb85cfc333857ec9		
Warnings:					
Information:					
Total Files Size (in bytes):			19400748		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)

Approved for use through 11/30/2020. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	15085830
	Filing Date	2016-03-30
	First Named Inventor	CONRAD, Wayne Ernest
	Art Unit	3723
	Examiner Name	MULLER, Bryan R.
	Attorney Docket Number	10452-P46958US04

U.S.PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6766558	B1	2004-07-27	Matsumoto et al.	
	2	4803753	A	1989-02-14	Palmer	

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	1	20120030896	A1	2012-02-09	Crouch et al.	
	2	20120023701	A1	2012-02-02	Lenkiewicz et al.	
	3	20090044372	A1	2009-02-19	Knopow et al.	
	4	20040045126	A1	2004-03-11	Parker et al.	

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	15085830
Filing Date	2016-03-30
First Named Inventor	CONRAD, Wayne Ernest
Art Unit	3723
Examiner Name	MULLER, Bryan R.
Attorney Docket Number	10452-P46958US04

	5	20030037403	A1	2003-02-27	Lang	
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FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1	Instruction manual: Makita Cordless Cleaner, Handy Vac II, Model 4071D; dated at least as early as 1993	

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EXAMINER SIGNATURE

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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	15085830
Filing Date	2016-03-30
First Named Inventor	CONRAD, Wayne Ernest
Art Unit	3723
Examiner Name	MULLER, Bryan R.
Attorney Docket Number	10452-P46958US04

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Philip C. Mendes da Costa/	Date (YYYY-MM-DD)	2018-04-17
Name/Print	Philip C. Mendes da Costa	Registration Number	33106

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

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3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt

EFS ID:	32362396
Application Number:	15085830
International Application Number:	
Confirmation Number:	9332
Title of Invention:	SURFACE CLEANING APPARATUS
First Named Inventor/Applicant Name:	Wayne Ernest Conrad
Customer Number:	1059
Filer:	Philip C. Mendes da Costa/Lesley Hunter
Filer Authorized By:	Philip C. Mendes da Costa
Attorney Docket Number:	10452-P46958US04
Receipt Date:	17-APR-2018
Filing Date:	30-MAR-2016
Time Stamp:	15:07:52
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	10452-P46958US04_Commissioner_reIDS_2018_04_17.pdf	725119 e71bbfbde19008031fcddec7127ee861f1dcd dae3	no	2

Warnings:

Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	P46958US04_SupplIDS_2018_04_17R.pdf	1098871 ff17a5d23da04a5bef0c08472ddc36d015b9ae87	no	4
Warnings:					
Information:					
3	Non Patent Literature	NPL1_Makita_4071D.pdf	751213 53d99b076d163fd02d08a4bfff115ae1e61396a60	no	14
Warnings:					
Information:					
Total Files Size (in bytes):			2575203		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No : 15/085,830 Confirmation No. 9332
Applicant : Omachron Intellectual Property Inc.
Filed : March 30, 2016
For : SURFACE CLEANING APPARATUS
T.C./A.U. : 3727
Examiner : MULLER, Bryan R.
Docket No. : 10452-P46958US04
Customer No. : 01059

April 17, 2018

Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Under 37 CFR 1.56 and 37 CFR 1.97(b)(3)

Sir:

In accordance with 37 CFR 1.97 and 1.98, and in recognition of the duty of disclosure set forth in 37 CFR 1.56, the applicant hereby submits an Information Disclosure Statement including a listing of patents and other publications of which the applicant is aware on e-PTO form SB/08a.

In accordance with the requirements of 1.97(b)(3), this Information Disclosure Statement is filed before the mailing of a first Office Action on the merits.

(A) List of References

A list of the patents and other publications of which the applicant is aware is set out in the attached e-PTO Form SB08a which is attached hereto.

(B) Copies of References

A copy of the cited non-patent literature reference is enclosed.



Bereskin & Parr LLP

Sootia Plaza, 40 King Street West, 40th Floor, Toronto, ON M5H 3Y2 Canada
Tel: 416.364.7311 Fax: 416.361.1398 bereskinparr.com

Application No. 15/085,830
Information Disclosure Statement

The filing of this statement shall not be construed as an admission that the information cited in the attached statement is, or is considered to be, material to patentability (37 CFR 1.97(h)), nor as an admission that it constitutes prior art.

Accordingly, the applicant submits that the Information Disclosure Statement is properly considered at this time.

Respectfully submitted,

April 17, 2018

BERESKIN & PARR LLP/S.E.N.C.R.L., s.r.l.
Agent for the Applicant

/Philip C. Mendes da Costa/

By _____
Philip C. Mendes da Costa, Reg. No. 33,106
BERESKIN & PARR LLP/S.E.N.C.R.L., s.r.l.
Box 401, 40 King Street West
Toronto, Ontario, Canada M5H 3Y2
Tel: 416-957-1695
Fax: 416-361-1398

Bereskin & Parr

Appl. No : 15/085,830 Confirmation No.: 9332
Inventor : Wayne Ernest Conrad
Filed : March 30, 2016
Title : SURFACE CLEANING APPARATUS
TC./A.U. : 3723
Examiner : MULLER, BRYAN R
Docket No. : 10452-P46958US04
Customer No. : 001059

Date: April 25, 2018

Mail Stop Amendment
Honorable Commissioner for Patents
P. O. Box 1450
Alexandria, Virginia 22313-1450

PRELIMINARY AMENDMENT

Sir:

Please amend the application as follows:

Amendments to the Drawings begin on page 2 of this paper.

Remarks/Arguments begin on page 3 of this paper.



Bereskin & Parr LLP

Scotia Plaza, 40 King Street West, 40th Floor, Toronto, ON M5H 3Y2 Canada
Tel: 416.364.7311 Fax: 416.361.1398 bereskinparr.com

Preliminary Amendment: April 25, 2018
Appl. No. 15/085,830

Amendments to the drawings

The attached sheets of drawings containing Figures 99 and 100 are submitted herewith to replace the original sheets filed, containing said figures.

Attachment: Annotated and Replacement Sheets for Figures 99 and 100

REMARKS/ARGUMENTS

The Applicant encloses herewith replacement sheets for Figures 99 and 100 in compliance with the United States Patent and Trademark Office requirements. Figures 99 and 100 have been amended to change reference numeral 1232 to 1228 so as to be consistent with paragraph [00379].

Accordingly, it is respectfully submitted that the drawings as submitted herewith comply with 37 CFR 1.84 and 37 CFR 1.121(d). The Applicant respectfully submits that no new matter has been added by the means of this amendment. Please replace the drawings as filed with the enclosed replacement sheets of drawings.

In light of the applicant's amendments, it is respectfully submitted that the present application is in condition for allowance. Should the Examiner have any remaining concerns which might prevent the prompt allowance of the application, the Examiner is respectfully invited to contact the undersigned at the telephone number appearing below.

The Applicant believes that no additional fees are due in conjunction with filing of this amendment. However, should such additional fees become due, the Commissioner is authorized to charge any deficiencies necessary for entry of this amendment from our Deposit Account No. 022095.

Preliminary Amendment: April 25, 2018
Appl. No. 15/085,830

Favourable consideration of this amendment is respectfully requested.

Respectfully submitted,

BERESKIN & PARR LLP/S.E.N.C.R.L., s.r.l.

/Philip C. Mendes da Costa/

By _____
Philip C. Mendes da Costa
Reg. No. 33,106
Tel: (416) 957-1695

Annotated Sheet

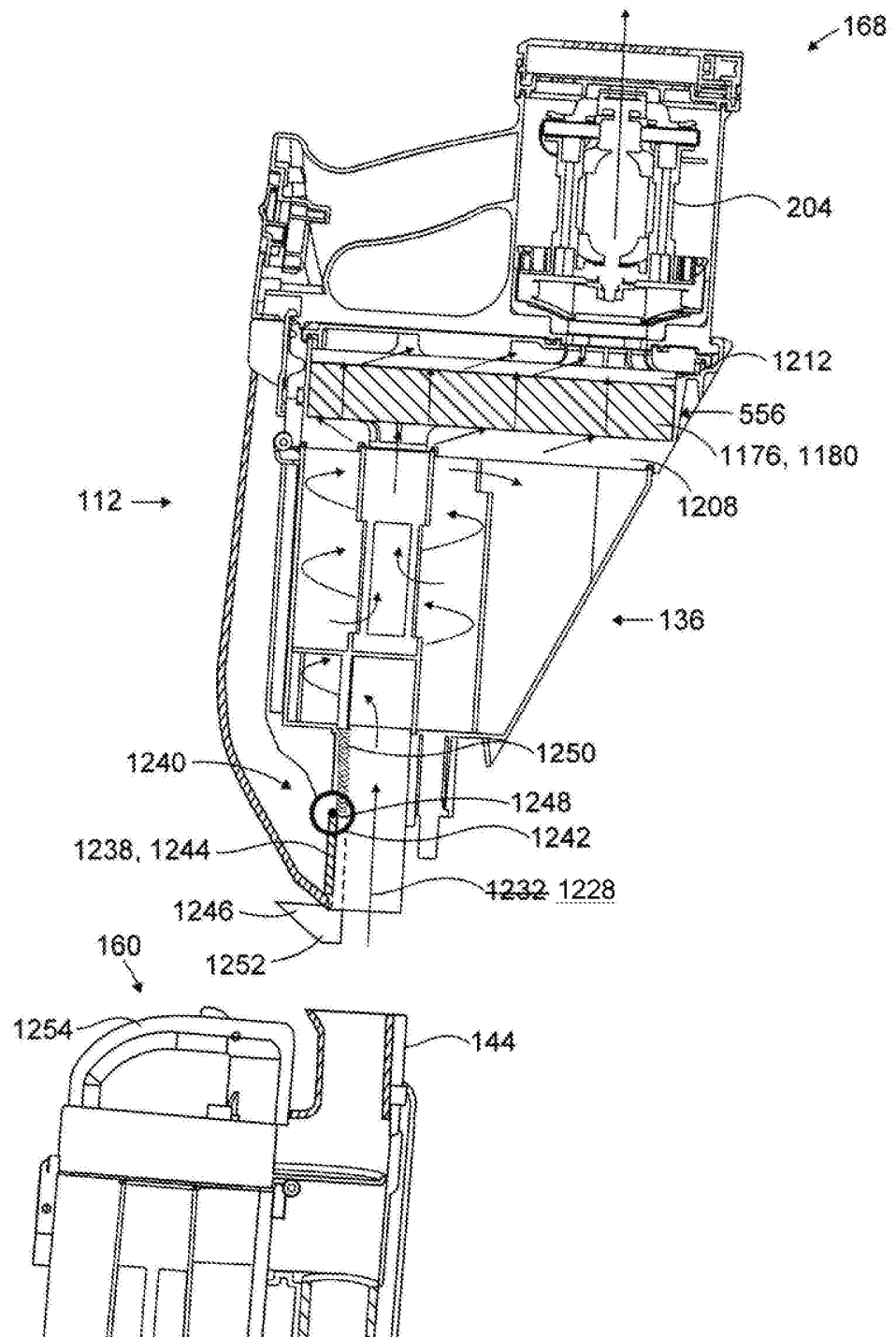


FIG. 99

Annotated Sheet

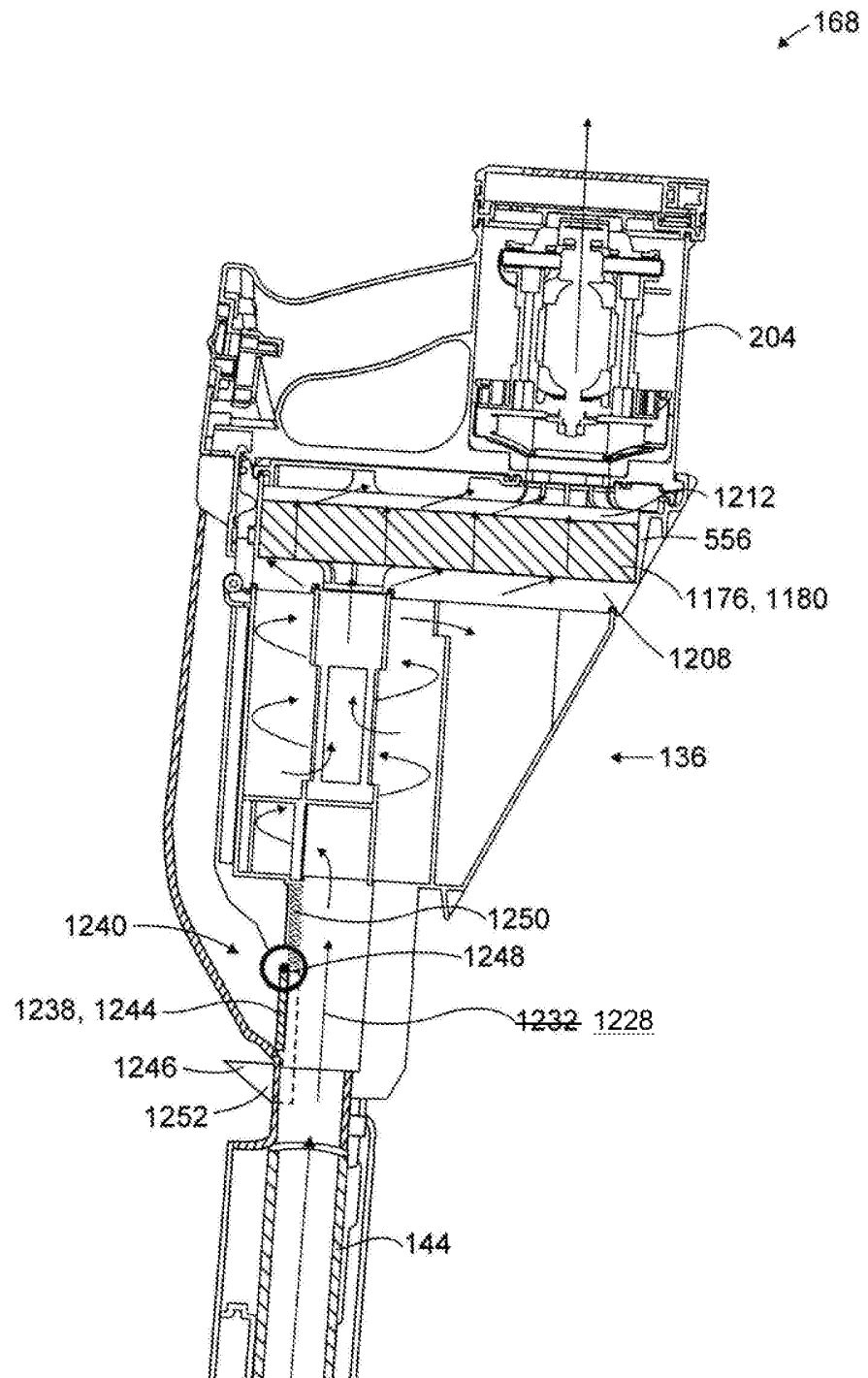


FIG. 100

Replacement Sheet

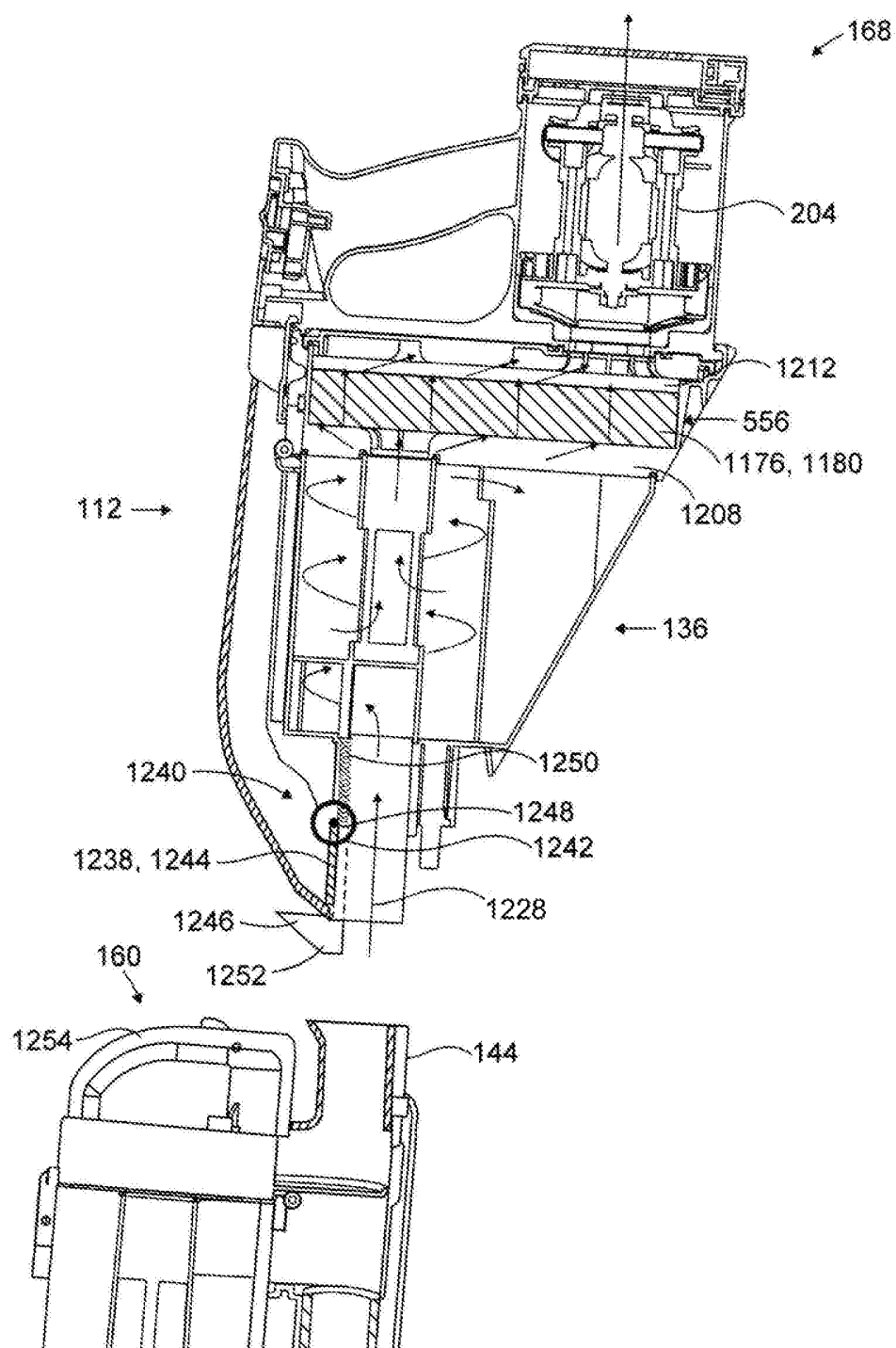


FIG. 99

Replacement Sheet

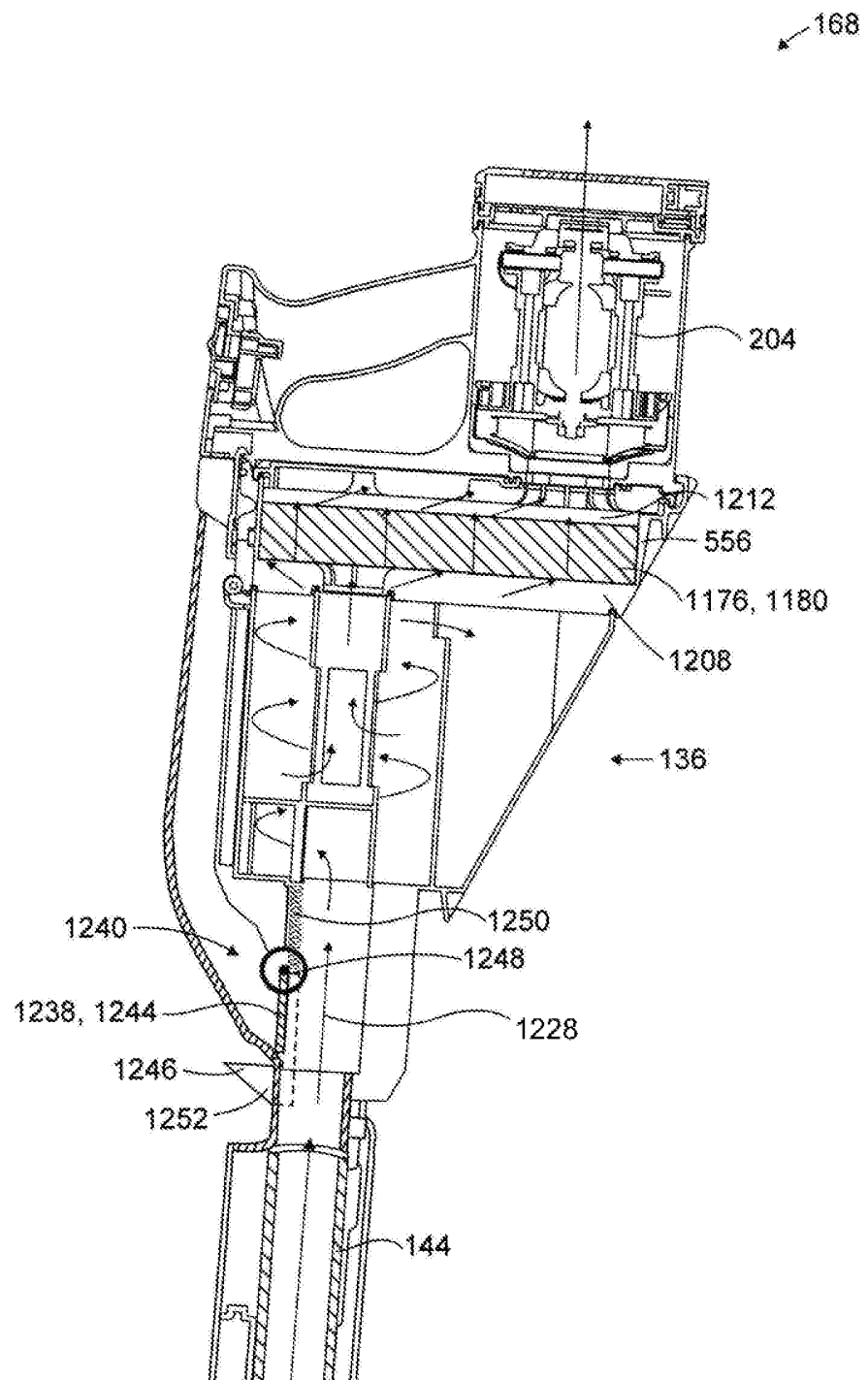


FIG. 100

Electronic Acknowledgement Receipt

EFS ID:	32438827
Application Number:	15085830
International Application Number:	
Confirmation Number:	9332
Title of Invention:	SURFACE CLEANING APPARATUS
First Named Inventor/Applicant Name:	Wayne Ernest Conrad
Customer Number:	1059
Filer:	Philip C. Mendes da Costa/Lisette Escobar
Filer Authorized By:	Philip C. Mendes da Costa
Attorney Docket Number:	10452-P46958US04
Receipt Date:	25-APR-2018
Filing Date:	30-MAR-2016
Time Stamp:	12:29:15
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
------------------------	----

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Preliminary Amendment	P46958US04_Preliminary_Ame ndment2018_04_25.pdf	171550 5a67c3bce12bd35edd2513407c44363415f 3b07b	no	4

Warnings:

Information:					
2	Drawings-only black and white line drawings	Annotated_Fig99_100uspto.pdf	637577 81e902b2cd455b1609055b36b93d78f838df3103	no	2
Warnings:					
Information:					
3	Drawings-only black and white line drawings	Replacement_Fig99_100uspto.pdf	633889 98a12d265f3afa006a37729a0e4cd098443c1057	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			1443016		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 15/085,830	Filing Date 03/30/2016	☐ To be Mailed
---	---	----------------------------------	---------------------------------------

ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

FOR	NUMBER FILED	NUMBER EXTRA		RATE (\$)	FEE (\$)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		X \$ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		X \$ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).				
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))					
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT	(Column 1)	(Column 2)	(Column 3)	(Column 4)	(Column 5)	RATE (\$)	ADDITIONAL FEE (\$)
	06/04/2018	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0	x \$100 =	0
	Independent (37 CFR 1.16(h))	* 2	Minus	***3	= 0	x \$460 =	0
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	0

AMENDMENT	(Column 1)	(Column 2)	(Column 3)	(Column 4)	(Column 5)	RATE (\$)	ADDITIONAL FEE (\$)
	04/25/2018	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		
	Total (37 CFR 1.16(i))	* 19	Minus	** 20	= 0	x \$100 =	0
	Independent (37 CFR 1.16(h))	* 1	Minus	*** 3	= 0	x \$460 =	0
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	0

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
MARGARET BYARS

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Bereskin & Parr

Appl. No : 15/085,830
Applicant : Omachron Intellectual Property Inc.
Filed : March 30, 2016
Title : SURFACE CLEANING APPARATUS

TC./A.U. : 3273
Examiner : Bryan R. Muller

Docket No. : 10452-P46958US04
Customer No.: 1059

Date: June 4, 2018
Confirmation No.: 9332

Honorable Commissioner for Patents
P. O. Box 1450
Alexandria, Virginia 22313-1450

PRELIMINARY AMENDMENT

Sir:

Prior to examination of the application, please amend the above-identified application as follows:

Amendments to the Claims are reflected in the listing of claims, which begins on page 2 of this paper.

Remarks/Arguments begin on page 6 of this paper.



Bereskin & Parr LLP

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2305876

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

(Currently Amended) A hand vacuum cleaner having a front end having a dirty air inlet, a clean air outlet, an upper end and a bottom, the hand vacuum cleaner comprising:

(a) a ~~main~~ vacuum cleaner body comprising an upper end, a lower end, a front end, a rear end and a handle, the handle extending between a first handle end and a second handle end, having an upper end and a lower end and being inclined forwardly at an angle that is less than 30 degrees from a vertical axis, the ~~main~~ hand vacuum cleaner body ~~housing~~ including a suction motor and fan assembly, the suction motor and fan assembly having a suction motor axis of rotation; and,

(b) a cyclone unit, the cyclone unit comprising a cyclone having a cyclone axis of rotation, a cyclone air inlet, a cyclone air outlet, a front end and a rear end,

wherein when the hand vacuum cleaner is positioned with the upper end above the bottom ~~the bottom on a horizontal surface~~, the cyclone axis of rotation is generally horizontal and extends between the front and rear ends of the cyclone, and

wherein when the hand vacuum cleaner is positioned with the upper end above the bottom, the handle is inclined forwardly at an angle that is between 10 and 80 degrees from a vertical axis, and

wherein the handle is provided on a sidewall at a rear portion of the hand vacuum cleaner body, and

wherein the handle has a handle axis that intersects the suction motor.

2. (Cancelled).

3. (Currently Amended) The hand vacuum cleaner of claim [[2]] 1 wherein the handle has a handle axis that intersects the suction motor axis of rotation.
4. (Cancelled).
5. (Cancelled).
6. (Currently Amended) The hand vacuum cleaner of claim 1 wherein the ~~main~~ hand vacuum cleaner body comprises a suction motor and fan assembly housing and the handle extends away ~~upwardly~~ from the suction motor and fan assembly housing.
7. (Original) The hand vacuum cleaner of claim 1 wherein the handle has a hand grip portion that extends upwardly and forwardly when the hand vacuum cleaner body is positioned with the lower end ~~bottom~~ on a horizontal surface.
8. (Original) The hand vacuum cleaner of claim 1 wherein when the hand vacuum cleaner body is positioned with the lower end ~~bottom~~ on a horizontal surface, the suction motor axis of rotation is generally horizontal.
9. (Original) The hand vacuum cleaner of claim 1 wherein when the hand vacuum cleaner body is positioned with the lower end ~~bottom~~ on a horizontal surface, the suction motor axis of rotation is positioned below the cyclone axis of rotation.
10. (Currently Amended) The hand vacuum cleaner of claim 1 wherein the cyclone has a front end wall having the cyclone air inlet ~~and a rear end wall having the cyclone air outlet~~.
11. (Original) The hand vacuum cleaner of claim 1 wherein the cyclone axis of rotation is generally parallel to the suction motor axis of rotation.
12. (Original) The hand vacuum cleaner of claim 1 wherein the cyclone unit is provided at the front end of the ~~main~~ hand vacuum cleaner body.
13. (Original) The hand vacuum cleaner of claim 1 wherein the dirty air inlet is provided at a front end of the cyclone unit.
14. (Currently Amended) The hand vacuum cleaner of claim 1 wherein the dirty air inlet comprises an inlet passage that extends longitudinally between an inlet end and an

outlet end and has a longitudinal passage axis that is coaxial with the cyclone axis
and[[,]] the outlet end communicates with the cyclone air inlet ~~and the longitudinal~~
~~passage axis intersects the handle.~~

15. (Original) The hand vacuum cleaner of claim 14 wherein the handle has a hand grip portion that extends upwardly and forwardly when the hand vacuum cleaner body is positioned with the lower end ~~bottom~~ on a horizontal surface.

16. (Original) The hand vacuum cleaner of claim 14 wherein the suction motor axis of rotation is positioned below the cyclone axis of rotation when the hand vacuum cleaner body is positioned with the lower end ~~bottom~~ on a horizontal surface.

17. (Cancelled).

18. (Original) The hand vacuum cleaner of claim 14 wherein the suction motor axis of rotation is positioned below longitudinal passage axis when the hand vacuum cleaner body is positioned with the lower end ~~bottom~~ on a horizontal surface.

19. (Cancelled).

20. (New) The hand vacuum cleaner of claim 1 wherein the handle is forward of a rear end of the hand vacuum cleaner body.

21. (New) A vacuum cleaner comprising:

- (a) a surface cleaning head;
- (b) a wand having a wand axis, a first end and an opposed second end, the first end being moveably mountable to the surface cleaning head and moveable between a storage position and an in use position;
- (c) a hand vacuum cleaner removably mountable to the second end of the wand, the hand vacuum cleaner comprising:
 - (i) a front end having a dirty air inlet, a clean air outlet, an upper end, a bottom, a rear end and a handle, the handle extending between a first handle end and a second handle end, the first handle end attached to a first portion of the hand vacuum cleaner, the second handle end attached

to a second portion of the hand vacuum cleaner that is spaced from the first portion, the hand vacuum cleaner including a suction motor and fan assembly, the suction motor and fan assembly having a suction motor axis of rotation, wherein the handle is inclined forwardly at an angle that is between 10 and 80 degrees from a plane that is transverse to the cyclone axis of rotation, the handle is located at a rear portion of the hand vacuum cleaner, and the handle has a handle axis that intersects the suction motor; and,

- (ii) a cyclone unit comprising a cyclone having a cyclone axis of rotation, a cyclone air inlet, a cyclone air outlet, a front end and a rear end,

wherein, when the hand vacuum cleaner is mounted to the wand, and the wand is in an upright storage position, the cyclone axis of rotation is coaxial with the wand axis and a portion of the handle is rearward of the wand axis.

- 22. (New) The hand vacuum cleaner of claim 21 wherein the hand vacuum cleaner comprises a suction motor and fan assembly housing and the handle extends away from the suction motor and fan assembly housing.
- 23. (New) The hand vacuum cleaner of claim 21 wherein the handle is forward of a rear end of the hand vacuum cleaner.
- 24. (New) The hand vacuum cleaner of claim 1 wherein a plane that is perpendicular to the motor axis extends through the handle from the first handle end to the second handle end.

REMARKS/ARGUMENTS

By this amendment, the Applicant has amended the claims so as to put them into a form that the Applicant desires to present for examination. No new matter has been added to the application by way of the above-noted amendment. Accordingly, entry of this amendment is respectfully requested.

Excess Claim Fees

The claim amendments submitted with this response added 5 claims and cancelled 5 claims, namely claims 2, 4, 5, 17, and 19. Accordingly, the Applicant believes that no additional fees are due in conjunction with filing of this amendment. However, should any additional fees be required, the Commissioner is authorized to charge any deficiency necessary for entry of this amendment, including any claim fees and/or extension fees from our Deposit Account No. 022095.

It is believed that the amendments submitted herewith place the present application in the condition for allowance. Reconsideration is respectfully requested.

Conclusion

In light of Applicant's amendments to the claims and the foregoing Remarks, it is respectfully submitted that the present application is in condition for allowance. Should the Examiner have any remaining concerns which might prevent the prompt allowance of the application, the Examiner is respectfully invited to contact the undersigned at the telephone number appearing below.

In view of the foregoing comments, favourable examination of the application is respectfully requested.

Appl. No. 15/085,830
Amendment dated June 4, 2018
Preliminary Amendment

Respectfully submitted,

BERESKIN & PARR LLP/S.E.N.C.R.L., s.r.l.

June 1, 2018

By /Philip C. Mendes da Costa/

Philip C. Mendes da Costa

Reg. No. 33,106

Tel: 416-364-7311

Electronic Acknowledgement Receipt

EFS ID:	32793583
Application Number:	15085830
International Application Number:	
Confirmation Number:	9332
Title of Invention:	SURFACE CLEANING APPARATUS
First Named Inventor/Applicant Name:	Wayne Ernest Conrad
Customer Number:	1059
Filer:	Philip C. Mendes da Costa/Snezana Lisowsky
Filer Authorized By:	Philip C. Mendes da Costa
Attorney Docket Number:	10452-P46958US04
Receipt Date:	04-JUN-2018
Filing Date:	30-MAR-2016
Time Stamp:	13:11:30
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
------------------------	----

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Preliminary Amendment	P46958US04_Preliminary_Ame ndment_2018_06_04.PDF	137674 e876f643836c54e5d53644758f714bda4b3 9d592	no	7

Warnings:

Information:	
Total Files Size (in bytes):	137674
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>	



UNITED STATES PATENT AND TRADEMARK OFFICE

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P.O. Box 1450
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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/085,830	03/30/2016	Wayne Ernest Conrad	10452-P46958US04	9332
1059 7590 08/13/2018 BERESKIN & PARR LLP/S.E.N.C.R.L., s.r.l. 40 KING STREET WEST 40th Floor TORONTO, ON M5H 3Y2 CANADA			EXAMINER MULLER, BRYAN R	
			ART UNIT 3723	PAPER NUMBER
			NOTIFICATION DATE 08/13/2018	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ipprocessingcentre@bereskinparr.com

Office Action Summary	Application No. 15/085,830	Applicant(s) CONRAD, WAYNE ERNEST	
	Examiner BRYAN R. MULLER	Art Unit 3723	AIA (First Inventor to File) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on 3/30/2016.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.

2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.

3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.

4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☒ Claim(s) 1,3,6-16,18 and 20-24 is/are pending in the application.
5a) Of the above claim(s) ____ is/are withdrawn from consideration.

6) ☐ Claim(s) ____ is/are allowed.

7) ☐ Claim(s) ____ is/are rejected.

8) ☐ Claim(s) ____ is/are objected to.

9) ☒ Claim(s) 1,3,6-16,18 and 20-24 are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

10) ☐ The specification is objected to by the Examiner.

11) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a) ☐ All b) ☐ Some** c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. ____.

3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b)
Paper No(s)/Mail Date ____.

3) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.

4) ☐ Other: ____.

DETAILED ACTION

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-20 and 24, drawn to a hand vacuum, classified in A47L 5/24.
 - II. Claims 21-23, drawn to a convertible vacuum cleaner, classified in A47L 5/225.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions II and I are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the handle angle for the combination (claim 1) is defined relative to a vertical axis, whereas the handle angle for the combination (claim 21) is defined relative to the cyclone axis, thus making the respective hand held cleaners different from one another. The subcombination has separate utility such as use as a hand held cleaner separate from the cleaning head and wand.

The examiner has required restriction between combination and subcombination inventions. Where applicant elects a subcombination, and claims thereto are subsequently found allowable, any claim(s) depending from or otherwise requiring all the limitations of the allowable subcombination will be examined for patentability in accordance with 37 CFR 1.104. See MPEP § 821.04(a). Applicant is advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application.

3. Restriction for examination purposes as indicated is proper because all the inventions listed in this action are independent or distinct for the reasons given above and there would be a serious search and/or examination burden if restriction were not required because one or more of the following reasons apply:

The divergent subject matter and differing focus of each invention would require extensive search in different classification areas, particularly due to the large number of embodiments for the different inventions.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a invention to be examined even though the requirement may be traversed (37 CFR 1.143) **and (ii) identification of the claims encompassing the elected invention.**

The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly

and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable upon the elected invention.

Should applicant traverse on the ground that the inventions are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103 or pre-AIA 35 U.S.C. 103(a) of the other invention.

4. This application contains claims directed to the following patentably distinct species:

- A. Figures 1-4, 21-24, 27-36, 45, 78, 96-98b, 110a-113 and 116-177
- B. Figures 5-12, 25, 36a, 79-81, 114-115
- C. Figures 13-20, 26, 37-44b, 52-77, 82-95c
- D. Figures 47-51
- E. Figures 99-101
- F. Figure 102
- G. Figure 103

- H. Figure 104a
- I. Figure 104b
- J. Figures 105a-b
- K. Figures 106-109
- L. Figure 118
- M. Figures 119a-b
- N. Figure 120
- O. Figures 121a-b
- P. Figures 122
- Q. Figures 123-127

The species are independent or distinct because each species introduces alternative structure, arrangement of components and/or orientations from one another. In addition, these species are not obvious variants of each other based on the current record.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species, or a single grouping of patentably indistinct species, for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claims are considered to be generic to all species.

There is a search and/or examination burden for the patentably distinct species as set forth above because at least the following reason(s) apply: the large number of species would extensive consideration to understand the functions of each individual species and differences between each species as well as extensive search within the classification area(s) for all variations disclosed.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species to be examined even though the requirement may be traversed (37 CFR 1.143) **and (ii) identification of the claims encompassing the elected species or grouping of patentably indistinct species**, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

The election may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the election of species requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected species or grouping of patentably indistinct species.

Should applicant traverse on the ground that the species, or groupings of patentably indistinct species from which election is required, are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing them to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the species unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103 or pre-AIA 35 U.S.C. 103(a) of the other species.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141.

5. Due to the complexity of the Restriction/Election Requirement, a telephone call was not made to request an oral election to the above restriction requirement.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BRYAN R. MULLER whose telephone number is (571)272-4489. The examiner can normally be reached on Mon, Wed, Thu, Fri 8-6.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Monica S. Carter can be reached on (571) 272-4475. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/BRYAN R MULLER/
Primary Examiner, Art Unit 3723
8/7/2018

Bereskin & Parr

Appl. No : 15/085,830
Applicant : Omachron Intellectual Property Inc.
Filed : March 30, 2016
Title : SURFACE CLEANING APPARATUS

TC./A.U. : 3723
Examiner : REDDING, David A.

Docket No. : 10452-P46958US04
Customer No.: 01059

Date: October 12, 2018
Confirmation No.:9332

Mail Stop Amendments
Honorable Commissioner for Patents
P. O. Box 1450
Alexandria, Virginia 22313-1450

RESPONSE TO REQUIREMENT FOR RESTRICTION/ELECTION

Sir:

In response to the Office Action of August 13, 2018, please amend the above-identified application as follows:

Amendments to the Claims are reflected in the listing of claims, which begins on page 2 of this paper.

Remarks/Arguments begin on page 5 of this paper.



Bereskin & Parr LLP

Scotia Plaza, 40 King Street West, 40th Floor, Toronto, ON M5H 3Y2 Canada
Tel: 416.364.7311 Fax: 416.361.1398 bereskinparr.com

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Amended) A hand vacuum cleaner having a front end having a dirty air inlet, a clean air outlet, an upper end and a bottom, the hand vacuum cleaner comprising:
 - (a) a vacuum cleaner_body comprising an upper end, a lower end, a front end, a rear end and a handle, the handle extending between a first handle end and a second handle end, the hand vacuum cleaner body including a suction motor and fan assembly, the suction motor and fan assembly having a suction motor axis of rotation; and,
 - (b) a cyclone unit comprising a cyclone having a cyclone axis of rotation, a cyclone air inlet, a cyclone air outlet, a front end and a rear end,wherein when the hand vacuum cleaner is positioned with the upper end above the bottom, the cyclone axis of rotation is generally horizontal and extends between the front and rear ends of the cyclone, and
wherein when the hand vacuum cleaner is positioned with the upper end above the bottom, the handle is inclined forwardly at an angle that is between 10 and 80 degrees from a vertical axis, and
wherein the handle is provided on a sidewall at a rear portion of the hand vacuum cleaner body, and
wherein the handle has a handle axis that intersects the suction motor.
2. (Cancelled).
3. (Previously Amended) The hand vacuum cleaner of claim 1 wherein the handle has a handle axis that intersects the suction motor axis of rotation.

4. (Cancelled).
5. (Cancelled).
6. (Previously Amended) The hand vacuum cleaner of claim 1 wherein the hand vacuum cleaner body comprises a suction motor and fan assembly housing and the handle extends away from the suction motor and fan assembly housing.
7. (Previously Amended) The hand vacuum cleaner of claim 1 wherein the handle has a hand grip portion that extends upwardly and forwardly when the hand vacuum cleaner body is positioned with the lower end on a horizontal surface.
8. (Previously Amended) The hand vacuum cleaner of claim on a horizontal surface, the suction motor axis of rotation is generally horizontal.
9. (Previously Amended) The hand vacuum cleaner of claim 1 wherein when the hand vacuum cleaner body is positioned with the lower end on a horizontal surface, the suction motor axis of rotation is positioned below the cyclone axis of rotation.
10. (Previously Amended) The hand vacuum cleaner of claim 1 wherein the cyclone has a front end wall having the cyclone air inlet.
11. (Original) The hand vacuum cleaner of claim 1 wherein the cyclone axis of rotation is generally parallel to the suction motor axis of rotation.
12. (Previously Amended) The hand vacuum cleaner of claim 1 wherein the cyclone unit is provided at the front end of the hand vacuum cleaner body.
13. (Previously Amended) The hand vacuum cleaner of claim 1 wherein the dirty air inlet is provided at a front end of the cyclone unit.
14. (Previously Amended) The hand vacuum cleaner of claim 1 wherein the dirty air inlet comprises an inlet passage that extends longitudinally between an inlet end and an outlet end and has a longitudinal passage axis that is coaxial with the cyclone axis and the outlet end communicates with the cyclone air inlet.

15. (Previously Amended) The hand vacuum cleaner of claim 14 wherein the handle has a hand grip portion that extends upwardly and forwardly when the hand vacuum cleaner body is positioned with the lower end on a horizontal surface.
16. (Previously Amended) The hand vacuum cleaner of claim 14 wherein the suction motor axis of rotation is positioned below the cyclone axis of rotation when the hand vacuum cleaner body is positioned with the lower end on a horizontal surface.
17. (Cancelled).
18. (Previously Amended) The hand vacuum cleaner of claim 14 wherein the suction motor axis of rotation is positioned below longitudinal passage axis when the hand vacuum cleaner body is positioned with the lower end on a horizontal surface.
19. (Cancelled)
20. The hand vacuum cleaner of claim 1 wherein the handle is forward of a rear end of the hand vacuum cleaner body.
21. (Cancelled)
22. (Cancelled)
23. (Cancelled)
24. (Previously Presented) The hand vacuum cleaner of claim 1 wherein a plane that is perpendicular to the motor axis extends through the handle from the first handle end to the second handle end.

REMARKS/ARGUMENTS

This is in response to the Restriction/Election Office Action dated August 13, 2018. Accordingly, this response is timely filed.

Summary of the Office Action

Claims 1, 3, 6-16, 18 and 20-24 were pending in this application.

The Restriction/Election Office Action of August 13, 2018, made a Requirement for Restriction between:

Group I, encompassing claims 1-20 and 24, drawn to a hand vacuum; and

Group II, encompassing claims 21-23, drawn to a convertible vacuum cleaner.

The Office Action also made a Requirement for Election of Species between the following Species, illustrated by:

- A. Figures 1-4, 21-24, 27-36, 45, 78, 96-98b, 110a-113 and 116-117
- B. Figures 5-12, 25, 36a, 79-81, 114-115
- C. Figures 13-20, 26, 37-44b, 52-77, 82-95c
- D. Figures 47-51
- E. Figures 99-101
- F. Figure 102
- G. Figure 103
- H. Figure 104a
- I. Figure 104b
- J. Figures 105a-b
- K. Figures 106-109
- L. Figure 118
- M. Figures 119a-b

- N. Figure 120
- O. Figures 121 a-b
- P. Figure 122
- Q. Figures 123-127

The Applicant is required to (i) elect species from the identified species for prosecution on the merits under 35 U.S.C. & 121; and (ii) identify the claims encompassing the elected species.

Election – Requirement for Restriction

For the purpose of expediting prosecution and without prejudice or disclaimer, the Applicant elects Group A, encompassing Claims 1-20 and 24.

The non-elected claims are hereby cancelled from the application without prejudice to the Applicant's right to file one or more continuation and/or divisional applications for the non-elected claims.

Election – Requirement for Election of Species

The Applicant also elects the species A, illustrated in Figures 1-4, 21-24, 27-36, 45, 78, 96-98b, 110a-113 and 116-117.

The non-elected claims are hereby cancelled from the application without prejudice to the Applicant's right to file one or more continuation and/or divisional applications for the non-elected species.

Concluding Remarks

Applicant respectfully submits that the present application is in condition for allowance and requests early and favourable disposition. If it is believed that a telephone interview would serve to expedite prosecution, the Examiner is kindly requested to contact the

Appl. No. 15/085,830
Amdt. dated October 11, 2018
Reply to Office Action of August 13, 2018

undersigned at 416.957.1695 or pmdcosta@bereskinparr.com.

Applicant respectfully requests that a timely Notice of Allowance be issued in this case.

Respectfully submitted,

BERESKIN & PARR LLP/S.E.N.C.R.L., s.r.l.

/Philip C. Mendes da Costa/

By _____
Name; Philip C. Mendes da Costa
Reg. No. 33,106
Tel: 416.957.1695

Electronic Acknowledgement Receipt

EFS ID:	33990979
Application Number:	15085830
International Application Number:	
Confirmation Number:	9332
Title of Invention:	SURFACE CLEANING APPARATUS
First Named Inventor/Applicant Name:	Wayne Ernest Conrad
Customer Number:	1059
Filer:	Philip C. Mendes da Costa/Snezana Lisowsky
Filer Authorized By:	Philip C. Mendes da Costa
Attorney Docket Number:	10452-P46958US04
Receipt Date:	12-OCT-2018
Filing Date:	30-MAR-2016
Time Stamp:	10:24:10
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		EFSWEB_P46958US04_Respons e_2018_10_12V1.PDF	723157 e18cc94acedffae9f5ee22e46265c9fd517c9 c46	yes	7

	Multipart Description/PDF files in .zip description		
	Document Description	Start	End
	Response to Election / Restriction Filed	1	1
	Claims	2	4
	Applicant Arguments/Remarks Made in an Amendment	5	7
Warnings:			
Information:			
Total Files Size (in bytes):		723157	
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>			

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 15/085,830		Filing Date 03/30/2016		☐ To be Mailed			
ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO											
APPLICATION AS FILED - PART I											
		(Column 1)		(Column 2)							
FOR		NUMBER FILED		NUMBER EXTRA		RATE (\$)		FEE (\$)			
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A		N/A		N/A					
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))		N/A		N/A		N/A					
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A		N/A		N/A					
TOTAL CLAIMS (37 CFR 1.16(i))		minus 20 = *				x \$80 =					
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 = *				x \$420 =					
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).									
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))											
* If the difference in column 1 is less than zero, enter "0" in column 2.						TOTAL					
APPLICATION AS AMENDED - PART II											
		(Column 1)		(Column 2)		(Column 3)					
AMENDMENT	10/12/2018	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA		RATE (\$)		ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	* 16	Minus	** 20	= 0		x \$100 =		0		
	Independent (37 CFR 1.16(h))	* 2	Minus	*** 3	= 0		x \$460 =		0		
	☐ Application Size Fee (37 CFR 1.16(s))										
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))										
								TOTAL ADD'L FEE		0	
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA		RATE (\$)		ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	*	Minus	**	=		x \$0 =				
	Independent (37 CFR 1.16(h))	*	Minus	***	=		x \$0 =				
	☐ Application Size Fee (37 CFR 1.16(s))										
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))										
								TOTAL ADD'L FEE			
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.								LIE			
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".								rolita M wimbush			
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".											
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.											

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



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NOTICE OF ALLOWANCE AND FEE(S) DUE

1059 7590 10/30/2018
BERESKIN & PARR LLP/S.E.N.C.R.L., s.r.l.
40 KING STREET WEST
40th Floor
TORONTO, ON M5H 3Y2
CANADA

EXAMINER

REDDING, DAVID A

ART UNIT

PAPER NUMBER

3723

DATE MAILED: 10/30/2018

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/085,830	03/30/2016	Wayne Ernest Conrad	10452-P46958US04	9332

TITLE OF INVENTION: SURFACE CLEANING APPARATUS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0	\$0	\$1000	01/30/2019

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PART B - FEE(S) TRANSMITTAL

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

1059 7590 10/30/2018
BERESKIN & PARR LLP/S.E.N.C.R.L., s.r.l.
40 KING STREET WEST
40th Floor
TORONTO, ON M5H 3Y2
CANADA

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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15/085,830	03/30/2016	Wayne Ernest Conrad	10452-P46958US04	9332
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TITLE OF INVENTION: SURFACE CLEANING APPARATUS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0	\$0	\$1000	01/30/2019

EXAMINER	ART UNIT	CLASS-SUBCLASS
REDDING, DAVID A	3723	015-353000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) The names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
- (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
- 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ Applicant certifying micro entity status. See 37 CFR 1.29
- ☐ Applicant asserting small entity status. See 37 CFR 1.27
- ☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/085,830	03/30/2016	Wayne Ernest Conrad	10452-P46958US04	9332
<div>1059 7590 10/30/2018</div> <div>BERESKIN & PARR LLP/S.E.N.C.R.L., s.r.l. 40 KING STREET WEST 40th Floor TORONTO, ON M5H 3Y2 CANADA</div>				
<div>EXAMINER</div> <div>REDDING, DAVID A</div>				
<div>ART UNIT</div> <div>3723</div>			<div>PAPER NUMBER</div>	

DATE MAILED: 10/30/2018

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No. 15/085,830	Applicant(s) CONRAD, WAYNE ERNEST	
	Examiner /DAVID REDDING/	Art Unit 3723	AIA (First Inventor to File) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to _____.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are 1,3,6-16,18,20 and 24. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

- a) ☐ All b) ☐ Some *c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has **THREE MONTHS FROM THE "MAILING DATE"** of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in **ABANDONMENT** of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ **CORRECTED DRAWINGS** (as "replacement sheets") must be submitted.
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ **DEPOSIT OF and/or INFORMATION** about the deposit of **BIOLOGICAL MATERIAL** must be submitted. Note the attached Examiner's comment regarding **REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL**.

Attachment(s)

- | | |
|--|--|
| 1. ☐ Notice of References Cited (PTO-892) | 5. ☒ Examiner's Amendment/Comment |
| 2. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 6. ☒ Examiner's Statement of Reasons for Allowance |
| 3. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 7. ☐ Other _____ |
| 4. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____ | |

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

a) Claim 8, line 1, after "claim" insert - - 1 - -.

The following is an examiner's statement of reasons for allowance: the prior art of record fails to teach or suggest a hand vacuum cleaner having a front end having a dirty air inlet, a clean air outlet, an upper end and a bottom, the hand vacuum cleaner comprising: (a) a vacuum cleaner_body comprising an upper end, a lower end, a front end, a rear end and a handle, the handle extending between a first handle end and a second handle end, the hand vacuum cleaner body including a suction motor and fan assembly, the suction motor and fan assembly having a suction motor axis of rotation; and,

(b) a cyclone unit comprising a cyclone having a cyclone axis of rotation, a cyclone air inlet, a cyclone air outlet, a front end and a rear end, wherein when the hand vacuum cleaner is positioned with the upper end above the bottom, the cyclone axis of rotation is generally horizontal and extends between the front and rear ends of the

cyclone, and wherein when the hand vacuum cleaner is positioned with the upper end above the bottom, the handle is inclined forwardly at an angle that is between 10 and 80 degrees from a vertical axis, and wherein the handle is provided on a sidewall at a rear portion of the hand vacuum cleaner body, and wherein the handle has a handle axis that intersects the suction motor.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to /DAVID REDDING/ whose telephone number is (571)272-1276. The examiner can normally be reached on Mon.-Fri. 6:00 - 3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Hail can be reached on 571-272-4485. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/DAVID REDDING/
Primary Examiner
Art Unit 3723

DAR

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)

Approved for use through 11/30/2020. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	15085830
	Filing Date	2016-03-30
	First Named Inventor	CONRAD, Wayne Ernest
	Art Unit	3723
	Examiner Name	MULLER, Bryan R.
	Attorney Docket Number	10452-P46958US04

U.S.PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
/DR/	1	6766558	B1	2004-07-27	Matsumoto et al.	
/DR/	2	4803753	A	1989-02-14	Palmer	

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Add

U.S.PATENT APPLICATION PUBLICATIONS						Remove
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
/DR/	1	20120030896	A1	2012-02-09	Crouch et al.	
/DR/	2	20120023701	A1	2012-02-02	Lenkiewicz et al.	
/DR/	3	20090044372	A1	2009-02-19	Knopow et al.	
/DR/	4	20040045126	A1	2004-03-11	Parker et al.	

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	15085830
Filing Date	2016-03-30
First Named Inventor	CONRAD, Wayne Ernest
Art Unit	3723
Examiner Name	MULLER, Bryan R.
Attorney Docket Number	10452-P46958US04

/DR/	5	20030037403	A1	2003-02-27	Lang
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If you wish to add additional U.S. Published Application citation information please click the Add button.

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1							

If you wish to add additional Foreign Patent Document citation information please click the Add button

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
/DR/	1	Instruction manual: Makita Cordless Cleaner, Handy Vac II, Model 4071D; dated at least as early as 1993	

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature	/David Redding/ (10/18/2018)	Date Considered	10/18/2018
--------------------	------------------------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

**INFORMATION DISCLOSURE
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Art Unit	3723
Examiner Name	MULLER, Bryan R.
Attorney Docket Number	10452-P46958US04

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Philip C. Mendes da Costa/	Date (YYYY-MM-DD)	2018-04-17
Name/Print	Philip C. Mendes da Costa	Registration Number	33106

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
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Doc code: IDS

PTO/SB/08a (03-15)

Doc description: Information Disclosure Statement (IDS) Filed

Approved for use through 07/31/2016, OMB 0651-0031
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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	First Named Inventor	Wayne Ernest Conrad
	Art Unit	3723
	Examiner Name	-
	Attorney Docket Number	10452-P46955US04

U.S. PATENTS

Examiner Initial*	Cite No.	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1					

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U.S. PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No.	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1					

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FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No.	Foreign Document Number ³	Country Code ^{2,1}	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
/DR/	1	101061932	CN	A	2007-10-31	KWONNIE ELECTRICAL PRODUCTS LIMITED		☐

If you wish to add additional Foreign Patent Document citation information please click the Add button.

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵

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First Named Inventor	Wayne Ernest Conrad
Art Unit	3723
Examiner Name	-
Attorney Docket Number	10452-P46958US04

1

☐

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EXAMINER SIGNATURE

Examiner Signature	/David Redding/ (10/17/2018)	Date Considered	10/17/2018
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Examiner Name	-
Attorney Docket Number	10452-P46958US04

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OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

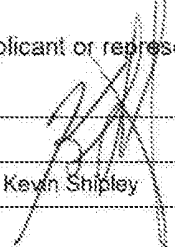
☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature		Date (YYYY-MM-DD)	2016-10-17
Name/Print	Kevin Shipley	Registration Number	67487

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	Art Unit	3723
	Examiner Name	N/A
	Attorney Docket Number	10452-P46958US04

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Application Number	15085830
Filing Date	2016-03-30
First Named Inventor	CONRAD, Wayne E.
Art Unit	3723
Examiner Name	N/A
Attorney Docket Number	10452-P46958US04

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /DR/

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/DR/	3	A copy of the Office Action received in connection to the corresponding Chinese Patent Application No. 200880126486.6 dated MAR 23 2012	
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See attached certification statement.

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Name/Print	Philip C. Mendes da Costa	Registration Number	33106

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9	20090282639	A1	2009-11-19	DYSON et al.
10	20100083459	A1	2010-04-08	BESKOW et al.
11	20140182080	A1	2014-07-03	LEE et al.
12	20120222260	A1	2012-09-06	CONRAD
13	20070136984	A1	2007-06-21	Hsu

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	1	2484587	CA	A1	2005-04-15	BLACK & DECKER INC.		
	2	2008088278	WO	A2	2008-07-24	AKTIEBOLAGET ELECTROLUX		
	3	02/017766	WO	A3	2002-03-07	ROYAL APPLIANCE MFG. CO.		
	4	2508035	GB		2014-05-21	DYSON TECHNOLOGY LIMITED		

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	15085830
Filing Date	2016-03-30
First Named Inventor	CONRAD, Wayne E.
Art Unit	3723
Examiner Name	N/A
Attorney Docket Number	10452-P46958US04

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /DR/

5	2308360	EP	A2	2011-04-13	WAI L.Y.		
6	1594386	EP	B1	2009-04-15	AKTIEBOLAGET ELECTROLUX		
7	202932850	CN	U	2013-05-15	SOZHOU PFEIFFER ELECTRIC CO LTD		
8	97/20492	WO	A1	1997-06-12	DOWNHAM		
9	2848173	EP	A1	2015-03-18	LIM		
10	1815777	EP	A1	2007-08-08	STOLLE		
11	2007104238	WO	A1	2007-09-20	Borinato et al.		

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EXAMINER SIGNATURE

Examiner Signature	/David Redding/ (10/17/2018)	Date Considered	10/17/2018
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See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Philip C. Mendes da Costa/	Date (YYYY-MM-DD)	2016-05-12
Name/Print	Philip C. Mendes da Costa	Registration Number	33106

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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<i>Index of Claims</i> 	Application/Control No. 15085830	Applicant(s)/Patent Under Reexamination CONRAD, WAYNE ERNEST
	Examiner DAVID REDDING	Art Unit 3723

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☒ Claims renumbered in the same order as presented by applicant										☐ CPA		☐ T.D.		☐ R.1.47	
CLAIM			DATE												
Final	Original	10/18/2018													
1	1	=													
	2	—													
2	3	=													
	4	—													
	5	—													
3	6	=													
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15	20	=													
	21	—													
	22	—													
	23	—													
16	24	=													

Search Notes 	Application/Control No. 15085830	Applicant(s)/Patent Under Reexamination CONRAD, WAYNE ERNEST
	Examiner DAVID REDDING	Art Unit 3723

CPC- SEARCHED		
Symbol	Date	Examiner
a4715/225, 9/1608, 9/16, 9/322, 9/1641, 9/1625, 9/325, 5/28, 9/1691, 9/1683, 5/24	10/18/18	DAR

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
A47L	9/32	10/18/18	DAR

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

SEARCH NOTES		
Search Notes	Date	Examiner
East - for terms see notes	10/18/18	DAR

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
	same as Search	10/18/18	DAR

	/DAVID REDDING/ Primary Examiner.Art Unit 3723
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Issue Classification 	Application/Control No. 15085830	Applicant(s)/Patent Under Reexamination CONRAD, WAYNE ERNEST	
	Examiner DAVID REDDING	Art Unit 3723	

CPC						
Symbol					Type	Version
A47L		5	/	225	F	2013-01-01
A47L		5	/	24	I	2013-01-01
A47L		5	/	28	I	2013-01-01
A47L		9	/	1683	I	2013-01-01
A47L		9	/	1691	I	2013-01-01
A47L		9	/	1625	I	2013-01-01
A47L		9	/	1641	I	2013-01-01
A47L		9	/	325	I	2013-01-01
A47L		9	/	322	I	2013-01-01
A47L		9	/	16	I	2013-01-01
A47L		9	/	1608	I	2013-01-01
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			/			
			/			

CPC Combination Sets									
Symbol					Type	Set	Ranking	Version	

NONE		Total Claims Allowed:	
(Assistant Examiner)		16	
(Date)			
/DAVID REDDING/ Primary Examiner.Art Unit 3723	10/18/18	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	26

Issue Classification 	Application/Control No. 15085830	Applicant(s)/Patent Under Reexamination CONRAD, WAYNE ERNEST
	Examiner DAVID REDDING	Art Unit 3723

☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
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8	11														
9	12														
10	13														
11	14														
12	15														
13	16														

NONE	Total Claims Allowed: 16	
(Assistant Examiner)	(Date)	
/DAVID REDDING/ Primary Examiner.Art Unit 3723	10/18/18	O.G. Print Claim(s) 1
(Primary Examiner)	(Date)	O.G. Print Figure 26

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	15085830
	Filing Date	2016-03-30
	First Named Inventor	Wayne Ernest Conrad
	Art Unit	3727
	Examiner Name	Muller, Bryan R.
	Attorney Docket Number	10452-P46958US04

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/DR/	1	5815881	A1	1998-10-06	SJOEGREEN		

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/DR/	1	2010147247	WO	A1	2001-11-15	PHILIPS	English machine translation		×
/DR/	2	204363891	CN	U	2015-06-03	NINGBO ZHONGJIE HOME APPLIANCES MFG CO LTD	English machine translation		☑
/DR/	3	2008206613	JP	A	2008-09-11	TSUIN BADO KOGYO	English machine translation		☑

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4	2002085297	JP	A	2002-03-26	MATSUSHITA ELECTRIC IND CO LTD	English machine translation	☒
5	2015129387	WO	A1	2015-09-03	MITSUBISHI ELECTRIC	English machine translation	☒
6	202739907	CN	U	2013-02-20	NINGBO MIMIR ELECTRICAL APPLIANCE CO LTD	English machine translation	☒
7	205671986	CN	U	2016-11-09	SUZHOU CHENGHE CLEANING EQUIPMENT CO LTD	English machine translation	☒
8	105816104	CN	A	2016-08-03	HITACHI APPLIANCES INC	English machine translation	☒
9	2013086228	JP	A	2013-05-13	HITACHI KOKI CO LTD	English machine translation	☒
10	2006102034	JP	A	2006-04-20	MATSUSHITA ELECTRIC IND CO LTD	English machine translation	☒
11	2450450	CA	A1	2004-12-26	SAMSUNG KWANGJU ELECTRONICS CO., LTD.		☐
12	2658014	CA	A1	2010-09-11	G.B.D. CORP.		☐
13	0489498	EP	A1	1992-06-10	HALLIBURTON		☐
14	203578	GB	B	1982-10-13	L & H DESIGNS LTD et al.		☐

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15	2307849	GB	A	1997-06-11	ELECTROLUX	☐
16	2465781	GB	A	2010-06-02	DYSON TECHNOLOGY	☐
17	2008035032	WO	A3	2008-06-12	DYSON TECHNOLOGY et al.	☐
18	0147247	WO	A2	2001-06-28	PHILIPS	☐
19	2008135708	WO	A1	2008-11-13	DYSON TECHNOLOGY et al.	☐
20	2016065151	WO	A1	2016-04-28	TECHTRONIC INDUSTRIES ET AL	☐
21	2006076363	WO	A3	2006-12-14	ROYAL APPLIANCE MFG. CO.	☐
22	2006076363	WO	A2	2006-07-20	ROYAL APPLIANCE MFG. CO.	☐
23	2440111	GB	A	2008-01-23	DYSON TECHNOLOGY	☐
24	2008070973	WO	A1	2008-06-19	GBD CORP et al.	☐
25	2017046557	WO	A1	2017-03-23	DYSON TECHNOLOGY	☐

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26	2017046559	WO	A1	2017-03-23	DYSON TECHNOLOGY	☐
27	2017046560	WO	A1	2017-03-23	DYSON TECHNOLOGY	☐

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	1	English machine translation of WO2010147247A1 published on November 15, 2001	
	2	English machine translation of CN204363891U published on June 3, 2015	
	3	English machine translation of JP2008206613A published on September 11, 2008	
	4	English machine translation of JP2002085297A published on March 26, 2002	
	5	English machine translation of WO2015129387A1 published on September 3, 2015	
	6	English machine translation of CN202739907U published on February 20, 2013	
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8	English machine translation of CN105816104A published on August 3, 2016
9	English machine translation of JP2013086228A published on may 13, 2013
10	English machine translation of JP2006102034A published on April 20, 2006
11	Combined Search and Examination Report under Sections 17 & 18(3) received in connection to the corresponding GB Patent Application No. 1522195.5 dated June 16, 2016
12	Combined Search and Examination Report under Sections 17 & 18(3) received in connection to the corresponding GB Patent Application No. 1706875.0 dated May 25, 2017
13	International Preliminary Report on Patentability in International Application No. PCT/CA2015/051332 dated June 29, 2017
14	International Search Report and Written Opinion received in connection to International Patent Application No. PCT/CA2014/000133, mailed on may 26, 2014
15	International Search Report and Written Opinion received in connection to International patent application no. PCT/CA2017/050436, mailed on July 21, 2017
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Name/Print	Philip C. Mendes da Costa	Registration Number	33,106

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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (03-15)

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	Filing Date		2016-03-30
	First Named Inventor	Wayne Ernest Conrad	
	Art Unit	3727	
	Examiner Name	Muller, Bryan R.	
	Attorney Docket Number	10452-P46958US04	

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	1	5515573	A	1996-05-14	FREY	
	2	5709007	A	1998-01-20	CHIANG	
	3	7113847	B2	2006-09-26	CHUMURA et al.	
	4	7128770	B2	2006-10-31	OH et al.	
	5	7426768	B2	2008-09-23	PETERSON et al.	
	6	7565853	B2	2009-07-28	ARNOLD et al.	
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	1	20020134238	A1	2002-09-26	CONRAD et al.	
	2	20080196745	A1	2008-08-21	CONRAD	
	3	20110219576	A1	2011-09-15	CONRAD	
	4	20120079671	A1	2012-04-05	STICKNEY et al.	
	5	20130160232	A1	2013-06-27	PEACE	
	6	20140237956	A1	2014-08-28	CONRAD	
	7	20150135474	A1	2015-05-21	Christopher Gidwell	
	8	20150297050	A1	2015-10-22	MARSH et al.	
	9	20160113460	A1	2016-04-28	WILLIAMS et al.	
	10	20150230677	A1	2015-08-20	ANDRIKANISH	

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11	20110289719	A1	2011-12-01	HAN et al.
12	20100229324	A1	2010-09-16	CONRAD

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	1	101095604	CN	A	2008-01-02	KWONNIE ELECTRICAL PRODUCTS LIMITED	English machine translation	×
	2	101108081	CN	A	2008-01-23	LG ELECTRONICS TIANJIN ELECTRIC APPLIANCE	English machine translation	☒
	3	101108106	CN	A	2008-01-23	LG ELECTRONICS TIANJIN ELECTRIC APPLIANCE	English machine translation	☒
	4	101108110	CN	A	2008-01-23	LG ELECTRONICS TIANJIN ELECTRIC APPLIANCE	English machine translation	☒
	5	101448447	CN	A	2009-06-03	ELECTROLUX	English machine translation	☒
	6	101489453	CN	A	2009-07-22	DYSON TECHNOLOGY LTD	English machine translation	☒
	7	101489455	CN	A	2009-07-22	DYSON TECHNOLOGY LTD	English machine translation	☒

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8	101489457	CN	A	2009-07-22	DYSON TECHNOLOGY LTD	English machine translation	☒
9	101489461	CN	A	2009-07-22	DYSON TECHNOLOGY LTD	English machine translation	☒
10	101822506	CN	A	2010-09-08	BLACK & DECKER	English machine translation	☒
11	102188208	CN	A	2011-09-21	G.B.D. CORP., LTD.	English machine translation	☒
12	102256523	CN	A	2011-11-23	TECHTRONIC FLOOR CARE TECHNOLOGY	English machine translation	☒
13	1336154	CN	A	2002-02-20	SAMSUNG KWANGJU ELECTRONICS CO	English machine translation	☒
14	1434688	CN	A	2003-08-06	LG ELECTRONICS INC.	English machine translation	☒
15	1626025	CN	A	2005-06-15	BLACK & DECKER	English machine translation	☒
16	1875846	CN	A	2006-12-13	LG ELECTRONICS TIANJIN ELECTRIC APPLIANCE	English machine translation	☒
17	1875855	CN	A	2006-12-13	LG ELECTRONICS TIANJIN ELECTRIC APPLIANCE	English machine translation	☒
18	1895148	CN	A	2007-01-17	BLACK & DECKER	English machine translation	☒

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19	201290642	CN	Y	2009-08-19	KINGCLEAN ELECTRIC NO., LTD.	English machine translation	☒
20	201683850	CN	U	2010-12-29	KINGCLEAN ELECTRIC NO., LTD.	English machine translation	☒
21	203724037	CN	U	2014-07-23	KWONNIE ELECTRICAL PRODUCTS LTD	English machine translation	☒
22	10056935	DE	C2	2003-01-16	SAMSUNG KWANGJU ELECTRONICS CO	English machine translation	☒
23	102007011457	DE	A1	2007-10-25	ROYAL APPLIANCE INTERNAT GMBH	English machine translation	☒
24	102012211246	DE	A1	2014-01-02	BOSCH SIEMENS HAUSGERATE	English machine translation	☒
25	112010001135	DE	T5	2012-08-02	G.B.D. CORP.	English machine translation	☒
26	202010018047	DE	U1	2013-11-14	DYSON TECHNOLOGY	English machine translation	☒
27	202010018084	DE	U1	2014-02-27	DYSON TECHNOLOGY	English machine translation	☒
28	202010018085	DE	U1	2014-02-27	DYSON TECHNOLOGY	English machine translation	☒
29	60201666	DE	T2	2006-06-01	DYSON TECHNOLOGY	English machine translation	☒

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30	60211663	DE	T2	2007-05-10	DYSON TECHNOLOGY	English machine translation	☒
31	69907201	DE	T2	2004-02-05	NOTETRY LTD	English machine translation	☒
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34	2009261501	JP	A	2009-11-12	YAMADA ELECTIC	English machine translation	☒
35	2010081968	JP	A	2010-04-15	SHARP	English machine translation	☒
36	1020010045598	KR	A	2001-06-05	SAMSUNG ELECTRONICS	English machine translation	☒
37	1020020067489	KR	A	2002-08-22	SHARP	English machine translation	☒
38	1020020085478	KR	A	2002-11-16	LG ELECTRONICS	English machine translation	☒
39	1020040050174	KR	A	2004-06-16	SAMSUNG ELECTRONICS	English machine translation	☒
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41	1020060118795	KR	A	2006-11-24	LG ELECTRONICS	English machine translation	☒
42	1020060118800	KR	A	2006-11-24	LG ELECTRONICS	English machine translation	☒
43	1020060118802	KR	A	2006-11-24	LG ELECTRONICS	English machine translation	☒
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45	1020060122249	KR	A	2006-11-30	LG ELECTRONICS	English machine translation	☒
46	1020060125952	KR	A	2006-12-07	LG ELECTRONICS	English machine translation	☒
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48	1020100084127	KR	A	2010-07-23	SEB	English machine translation	☒
49	10681	NL	C	1923-11-17	LEHMANN	English machine translation	☒
50	2008035032	WO	A2	2008-03-27	DYSON TECHNOLOGY	English machine translation	☒

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	1	English machine translation of CN101095604A published on January 2, 2008	
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11	English machine translation of CN102188208A published on September 21, 2011
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13	English machine translation of CN1336154A published on February 20, 2002
14	English machine translation of CN1434688A published on August 6, 2003
15	English machine translation of CN1626025A published on June 16, 2005
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18	English machine translation of CN1895148A published on January 17, 2007
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20	English machine translation of CN201683850U published on December 29, 2010
21	English machine translation of CN203724037U published on July 23, 2014

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26	English machine translation of DE202010018047U1 published on November 14, 2013
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31	English machine translation of DE69907201T2 published on February 5, 2004
32	English machine translation of JP2003135335A published on May 13, 2003

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37	English machine translation of KR1020020067489A published on August 22, 2002
38	English machine translation of KR1020020085478A published on November 16, 2002
39	English machine translation of KR1020040050174A published on June 16, 2004
40	English machine translation of KR1020060008365A published on January 26, 2006
41	English machine translation of KR1020060118795A published on November 24, 2006
42	English machine translation of KR1020060118800A published on November 24, 2006
43	English machine translation of KR1020060118802A published on November 24, 2006

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45	English machine translation of KR1020060122249A published on November 30, 2006
46	English machine translation of KR1020060125952A published on December 7, 2006
47	English machine translation of KR1020060125954A published on December 7, 2006
48	English machine translation of KR1020100084127A published on July 23, 2010
49	English machine translation of NL10681C published on November 17, 1923
50	English machine translation of WO2008035032A2 published on March 27, 2008

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Examiner Signature	/David Redding/ (10/18/2018)	Date Considered	10/18/2018
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Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

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☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Philip C. Mendes da Costa/	Date (YYYY-MM-DD)	2017-10-05
Name/Print	Philip C. Mendes da Costa	Registration Number	33,106

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	7	("20030037403" "20040045126" "20090044372" "20120023701" "20120030896" "4803753" "6766558").PN.	US-PGPUB; USPAT	OR	OFF	2018/10/18:13:13
L2	16681	a4715/225, 9/1608, 9/16, 9//322, 9/1641, 9/1625, 9/325, 5/28, 9/1691, 9/1683, 5/24.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/18:13:57
L3	665	2 and (cyclon\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/18:13:57
L4	370	3 and (handle grip)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/18:13:57
L5	5311	a4719/32.ipc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/18:13:58
L6	2456	5 and (handle grip)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/18:13:58
L7	320	6 and (cyclon\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/18:13:58
L8	2408	conrad-w\$.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/18:14:01
L9	1210	8 and (vacuum suction)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/10/18:14:02

10/ 18/ 2018 2:02:24 PM

Bibliographic Data

Application No: 15/085,830

Foreign Priority claimed: ☐ Yes ☒ No

35 USC 119 (a-d) conditions met: ☐ Yes ☐ No ☐ Met After Allowance

Verified and Acknowledged: /David Redding/

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Title: SURFACE CLEANING APPARATUS

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APPLICANTS

Omachron Intellectual Property Inc., Hampton, CANADA

INVENTORS

Wayne Ernest Conrad Hampton, CANADA

CONTINUING DATA

This application is a CON of 14822211 08/10/2015 PAT 9888817

14822211 has PRO of 62093189 12/17/2014

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

04/13/2016

STATE OR COUNTRY

CANADA

ADDRESS

BERESKIN & PARR LLP/S.E.N.C.R.L., s.r.l.

40 KING STREET WEST

40th Floor

TORONTO, ON M5H 3Y2

CANADA

FILING FEE RECEIVED

\$2,400

Electronic Acknowledgement Receipt

EFS ID:	34213085
Application Number:	15085830
International Application Number:	
Confirmation Number:	9332
Title of Invention:	SURFACE CLEANING APPARATUS
First Named Inventor/Applicant Name:	Wayne Ernest Conrad
Customer Number:	1059
Filer:	Philip C. Mendes da Costa/Snezana Lisowsky
Filer Authorized By:	Philip C. Mendes da Costa
Attorney Docket Number:	10452-P46958US04
Receipt Date:	05-NOV-2018
Filing Date:	30-MAR-2016
Time Stamp:	15:32:05
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment after Notice of Allowance (Rule 312)	EFSWEB_P46958US04_Amend mentAfterAllowance_2018_11 _05.PDF	211073 dca2f8887d9cb78a798aa45dffcc5e1e70ed 4729	no	7

Warnings:

Information:	
Total Files Size (in bytes):	211073
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>	



Appl. No : 15/085,830
Applicant : Omachron Intellectual Property Inc.
Filed : March 30, 2016
Title : SURFACE CLEANING APPARATUS

TC./A.U. : 3723
Examiner : REDDING, David A.

Docket No. : 10452-P46958US04
Customer No.: 01059

Date: November 5, 2018
Confirmation No.:9332

Mail Stop Amendments
Honorable Commissioner for Patents
P. O. Box 1450
Alexandria, Virginia 22313-1450

AMENDMENT AFTER ALLOWANCE

Sir:

In response to the Notice of Allowance of October 30, 2018, please amend the above-identified application as follows:

Amendments to the Claims are reflected in the listing of claims, which begins on page 2 of this paper.

Remarks/Arguments begin on page 5 of this paper.



Bereskin & Parr LLP

Scotia Plaza, 40 King Street West, 40th Floor, Toronto, ON M5H 3Y2 Canada
Tel: 416.364.7311 Fax: 416.361.1398 bereskinparr.com

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A hand vacuum cleaner having a front end having a dirty air inlet, a clean air outlet, an upper end and a lower end ~~bottom~~, the hand vacuum cleaner comprising:

(a) a hand vacuum cleaner body comprising an upper end, a lower end, a front end, a rear end and a handle, the handle extending between a first handle end and a second handle end, the hand vacuum cleaner body including a suction motor and fan assembly, the suction motor and fan assembly having a suction motor axis of rotation; and,

(b) a cyclone unit comprising a cyclone having a cyclone axis of rotation, a cyclone air inlet, a cyclone air outlet, a front end and a rear end,

wherein when the hand vacuum cleaner is positioned with the upper end of the hand vacuum cleaner above the lower end ~~bottom~~ of the hand vacuum cleaner and the lower end of the hand vacuum cleaner is on a horizontal surface, the cyclone axis of rotation is generally horizontal and extends between the front and rear ends of the cyclone, and

wherein when the hand vacuum cleaner is positioned with the upper end of the hand vacuum cleaner above the lower end ~~bottom~~ of the hand vacuum cleaner and the lower end of the hand vacuum cleaner is on a horizontal surface the handle is inclined forwardly at an angle that is between 10 and 80 degrees from a vertical axis, and

wherein the handle is provided on a sidewall at a rear portion of the hand vacuum cleaner body, and

wherein the handle has a handle axis that intersects the suction motor.

2. (Cancelled).
3. (Previously Amended) The hand vacuum cleaner of claim 1 wherein the handle has a handle axis that intersects the suction motor axis of rotation.
4. (Cancelled).
5. (Cancelled).
6. (Previously Amended) The hand vacuum cleaner of claim 1 wherein the hand vacuum cleaner body comprises a suction motor and fan assembly housing and the handle extends away from the suction motor and fan assembly housing.
7. (Currently Amended) The hand vacuum cleaner of claim 1 wherein the handle has a hand grip portion that extends upwardly and forwardly when the hand vacuum cleaner ~~body~~ is positioned with the lower end of the hand vacuum cleaner on a horizontal surface.
8. (Currently Amended) The hand vacuum cleaner of claim 1 wherein when the hand vacuum cleaner is positioned with the lower end of the hand vacuum cleaner on a horizontal surface, the suction motor axis of rotation is generally horizontal.
9. (Currently Amended) The hand vacuum cleaner of claim 1 wherein when the hand vacuum cleaner ~~body~~ is positioned with the lower end of the hand vacuum cleaner on a horizontal surface, the suction motor axis of rotation is positioned below the cyclone axis of rotation.
10. (Previously Amended) The hand vacuum cleaner of claim 1 wherein the cyclone has a front end wall having the cyclone air inlet.
11. (Original) The hand vacuum cleaner of claim 1 wherein the cyclone axis of rotation is generally parallel to the suction motor axis of rotation.
12. (Previously Amended) The hand vacuum cleaner of claim 1 wherein the cyclone unit is provided at the front end of the hand vacuum cleaner body.
13. (Previously Amended) The hand vacuum cleaner of claim 1 wherein the dirty air inlet is provided at a front end of the cyclone unit.

14. (Previously Amended) The hand vacuum cleaner of claim 1 wherein the dirty air inlet comprises an inlet passage that extends longitudinally between an inlet end and an outlet end and has a longitudinal passage axis that is coaxial with the cyclone axis and the outlet end communicates with the cyclone air inlet.
15. (Currently Amended) The hand vacuum cleaner of claim 14 wherein the handle has a hand grip portion that extends upwardly and forwardly when the hand vacuum cleaner ~~body~~ is positioned with the lower end of the hand vacuum cleaner on a horizontal surface.
16. (Currently Amended) The hand vacuum cleaner of claim 14 wherein the suction motor axis of rotation is positioned below the cyclone axis of rotation when the hand vacuum cleaner ~~body~~ is positioned with the lower end of the hand vacuum cleaner on a horizontal surface.
17. (Cancelled).
18. (Currently Amended) The hand vacuum cleaner of claim 14 wherein the suction motor axis of rotation is positioned below ~~longitudinal~~ the passage axis when the hand vacuum cleaner ~~body~~ is positioned with the lower end of the hand vacuum cleaner on a horizontal surface.
19. (Cancelled).
20. (Previously Presented) The hand vacuum cleaner of claim 1 wherein the handle is forward of a rear end of the hand vacuum cleaner body.
21. (Cancelled).
22. (Cancelled).
23. (Cancelled).
24. (Previously Presented) The hand vacuum cleaner of claim 1 wherein a plane that is perpendicular to the motor axis extends through the handle from the first handle end to the second handle end.

REMARKS/ARGUMENTS

This is in response to the Notice of Allowance dated October 30, 2018. Accordingly, this response is timely filed.

Status of the Claims

Claim 1 has been amended to correct antecedent issues and to clarify the claimed orientation that is referred to. In particular:

- Claim 1 has been amended to change “vacuum cleaner body” to “hand vacuum cleaner body so as to provide a correct antecedent for “hand vacuum cleaner body”.
- Claim 1 refers to an “upper end” of the hand vacuum cleaner and an “upper end” of the vacuum cleaner body. To ensure the claim uses correct antecedents, the claim has been amended to refer to the upper end “of the hand vacuum cleaner”.
- Claim 1 has also been amended to change the “bottom” of the hand vacuum cleaner to the “lower end” of the hand vacuum cleaner. This amendment brings the language of claim 1 so as to be consistent with [00317] of the specification.
- Claim 1 has also been amended to clarify the specific orientation of the hand vacuum cleaner referred to in the claim. Accordingly, the claim now refers to the orientation of the hand vacuum cleaner when the upper end of the hand vacuum cleaner is above the lower end of the hand vacuum cleaner and “the lower end of the hand vacuum cleaner is on a horizontal surface”.

Accordingly, it is submitted that the amendments made herein merely clarifies claim 1. Consequential changes have been made to the dependent claims.

In addition, the Applicant has noted that, in the response to the Restriction Requirement, some language was omitted from claim 8. Claim 8 has been amended to reinsert the language and to be consistent with Claim 1.

Entry of the amendment is respectfully requested.

Respectfully submitted,

BERESKIN & PARR LLP/S.E.N.C.R.L., s.r.l.

/Philip C. Mendes da Costa/

By _____
Name; Philip C. Mendes da Costa
Reg. No. 33,106
Tel: 416.957.1695

Appl. No. 15/085,830
Amendment After Allowance dated November 5, 2018

Replacement Sheet

Attach Figure



UNITED STATES PATENT AND TRADEMARK OFFICE

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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/085,830	03/30/2016	Wayne Ernest Conrad	10452-P46958US04	9332
1059 7590 12/06/2018 BERESKIN & PARR LLP/S.E.N.C.R.L., s.r.l. 40 KING STREET WEST 40th Floor TORONTO, ONTARIO M5H 3Y2 CANADA			EXAMINER REDDING, DAVID A	
			ART UNIT 3723	PAPER NUMBER
			NOTIFICATION DATE 12/06/2018	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ipprocessingcentre@bereskinparr.com

<i>Corrected</i> <i>Notice of Allowability</i>	Application No. 15/085,830	Applicant(s) Conrad, Wayne Ernest	
	Examiner DAVID A REDDING	Art Unit 3723	AIA Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed 11/5/18.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are See Continuation Sheet. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
Certified copies:
a) ☐ All b) ☐ Some *c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
* Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file areply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| 1. ☐ Notice of References Cited (PTO-892) | 5. ☐ Examiner's Amendment/Comment |
| 2. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____. | 6. ☐ Examiner's Statement of Reasons for Allowance |
| 3. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material _____. | 7. ☐ Other _____. |
| 4. ☐ Interview Summary (PTO-413),
Paper No./Mail Date. _____. | |

/David Redding/
Primary Examiner, Art Unit 3723

Continuation of 3. The allowed claim(s) is/are: 1,3,6-16,18,20 and 24

Bereskin & Parr

Appl. No : 15/085,830
Applicant : Omachron Intellectual Property Inc.
Filed : March 30, 2016
Title : SURFACE CLEANING APPARATUS

TC./A.U. : 3723
Examiner : REDDING, David A.

Docket No. : 10452-P46958US04
Customer No.: 01059

Date: November 5, 2018
Confirmation No.:9332

Mail Stop Amendments
Honorable Commissioner for Patents
P. O. Box 1450
Alexandria, Virginia 22313-1450

OK TO ENTER
DAR
12/1/18

AMENDMENT AFTER ALLOWANCE

Sir:

In response to the Notice of Allowance of October 30, 2018, please amend the above-identified application as follows:

Amendments to the Claims are reflected in the listing of claims, which begins on page 2 of this paper.

Remarks/Arguments begin on page 5 of this paper.



Bereskin & Parr LLP

Scotia Plaza, 40 King Street West, 40th Floor, Toronto, ON M5H 3Y2 Canada
Tel: 416.364.7311 Fax: 416.361.1398 bereskinparr.com

Bereskin & Parr

Appl. No : 15/085,830 Confirmation No.: 9332
Applicant : Omachron Intellectual Property Inc.
Filed : March 30, 2016
Title : SURFACE CLEANING APPARATUS
TC./A.U. : 3723
Examiner : REDDING, DAVID A.

Docket No. : 10452-P46958US04
Customer No. : 01059

Honorable Commissioner for Patents
P. O. Box 1450
Alexandria, Virginia 22313-1450

January 10, 2019

FINAL FEES

This correspondence is responsive to the Notice of Allowance and Issue Fee Due dated October 30, 2018 issued in the above-identified patent application. As required, we enclose herewith the Issue Fee transmittal form.

The government fee of \$1000 USD is included. Please charge any deficiency or credit any overpayment to our deposit account no. 02-2095.

Respectfully submitted,

BERESKIN & PARR LLP/ S.E.N.C.R.L., s.r.l.

/Philip C. Mendes da Costa/

Registration No. 33,106
Phone: 416. 957.1695
Fax: 416.361.1398



Bereskin & Parr LLP

Scotia Plaza, 40 King Street West, 40th Floor, Toronto, ON M5H 3Y2 Canada
Tel: 416.364.7311 Fax: 416.361.1398 bereskinparr.com

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax **(571)-273-2885**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

1059 7590 10/30/2018
BERESKIN & PARR LLP/S.E.N.C.R.L., s.r.l.
40 KING STREET WEST
40th Floor
TORONTO, ON M5H 3Y2
CANADA

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

15/085,830 03/30/2016 Wayne Ernest Conrad 10452-P46958US04 9332

TITLE OF INVENTION: SURFACE CLEANING APPARATUS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0	\$0	\$1000	01/30/2019

EXAMINER	ART UNIT	CLASS-SUBCLASS
REDDING, DAVID A	3723	015-353000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
- (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Philip C. Mendes da Costa
BERESKIN & PARR LLP/
2 S.E.N.C.R.L., s.r.l.
3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Omachron Intellectual Property Inc.

Hampton, Ontario, Canada

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☒ Issue Fee
- ☒ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☒ Payment by credit card. Form PTO-2038 is attached.
- ☒ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number 022095 (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ Applicant certifying micro entity status. See 37 CFR 1.29
- ☐ Applicant asserting small entity status. See 37 CFR 1.27
- ☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /Philip C. Mendes da Costa/

Date January 10, 2019

Typed or printed name Philip C. Mendes da Costa

Registration No. 33106

Electronic Patent Application Fee Transmittal				
Application Number:		15085830		
Filing Date:		30-Mar-2016		
Title of Invention:		SURFACE CLEANING APPARATUS		
First Named Inventor/Applicant Name:		Wayne Ernest Conrad		
Filer:		Philip C. Mendes da Costa/Lesley Hunter		
Attorney Docket Number:		10452-P46958US04		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	1501	1	1000	1000

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1000

Electronic Acknowledgement Receipt

EFS ID:	34819624
Application Number:	15085830
International Application Number:	
Confirmation Number:	9332
Title of Invention:	SURFACE CLEANING APPARATUS
First Named Inventor/Applicant Name:	Wayne Ernest Conrad
Customer Number:	1059
Filer:	Philip C. Mendes da Costa/Lesley Hunter
Filer Authorized By:	Philip C. Mendes da Costa
Attorney Docket Number:	10452-P46958US04
Receipt Date:	10-JAN-2019
Filing Date:	30-MAR-2016
Time Stamp:	14:55:19
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$ 1000
RAM confirmation Number	011119INTEFSW14554700
Deposit Account	
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	P46958US04_Commissioner_2019-01-10.pdf	130876	no	1
			432c406710596f43e7ecbede23d00e7c825ddbe0		
Warnings:					
Information:					
2	Issue Fee Payment (PTO-85B)	P46958US04_Issue_Fee_Transmittal.PDF	6165657	no	1
			0fc5ad45aad4481ec7373b6ac01c27e324a5fda3		
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30103	no	2
			eae2c0a863e8b222f8ea72db546ca04f641de4a4		
Warnings:					
Information:					
Total Files Size (in bytes):			6326636		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	15085830
Filing Date	2016-03-30
First Named Inventor	CONRAD, Wayne E.
Art Unit	3723
Examiner Name	N/A
Attorney Docket Number	10452-P46958US04

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /DR/

	174	7691161		2010-04-06	Oh et al.	
	175	7717973	B2	2010-05-18	Oh et al.	
Change(s) applied to document, /S.H./ 12/7/2018	176	7882593		02/2011 2011-02-08	Beskow et al.	
	177	7958598	B2	2011-06-14	Yun et al.	
	178	7996956	B2	2011-08-16	Wood et al.	
	179	8100999		2012-01-24	Ashbee et al.	
	180	8101001		2012-01-24	Qian	

If you wish to add additional U.S. Patent citation information please click the Add button.

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Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20120222262	A1	2012-09-06	Conrad	
	2	20120222245	A1	2012-09-06	Conrad	



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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/085,830	03/05/2019	10219661	10452-P46958US04	9332

1059 7590 02/13/2019

BERESKIN & PARR LLP/S.E.N.C.R.L., s.r.l.
40 KING STREET WEST
40th Floor
TORONTO, ONTARIO M5H 3Y2
CANADA

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment is 408 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

Wayne Ernest Conrad, Hampton, CANADA;
Omachron Intellectual Property Inc., Hampton, CANADA;

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent No.: 15/085,830
Filing date: March 30, 2016
Patentee: Omachron Intellectual Property Inc.
Issued : March 5, 2019
Title: SURFACE CLEANING APPARATUS

Docket No.: 10452-P46958US04
Customer No.: 1059

Date: April 3, 2019

Honorable Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REQUEST FOR CERTIFICATE OF CORRECTION OF PATENT
FOR PTO MISTAKE (37 C.F.R. § 1.322(a))

1. Attached is PTO/SB/44 in a form suitable for printing.
2. The exact page and line number of the errors and the corrections that are required are as follows:

Claim 1, Column 47, line 50, "an upper end and a bottom," should read - - "an upper end and a lower end ~~bottom~~,"

Claim 1, Column 47, line 52, "a vacuum cleaner body" should read - - a hand vacuum cleaner body - -

Claim 1, Column 47, line 63, "the upper end above the bottom," should read - - the upper end of the hand vacuum cleaner above the ~~bottom~~ lower end of the hand vacuum cleaner and the lower end of the hand vacuum cleaner is on a horizontal surface. - -

Claim 1, Column 48, line 4, "the upper end above the bottom," should read - - the upper end of the hand vacuum cleaner above the ~~bottom~~ lower end of the hand vacuum cleaner and the lower end of the hand vacuum cleaner is on a horizontal surface. - -

Claim 4, Column 48, line 20, "the hand vacuum cleaner body" should read - - the hand vacuum cleaner ~~body~~ - -

Claim 4, Column 48, line 21, "lower end on a horizontal surface" should read - - lower end of the hand vacuum cleaner on a horizontal surface - -



Bereskin & Parr LLP

Scotia Plaza, 40 King Street West, 40th Floor, Toronto, ON M5H 3Y2 Canada
Tel: 416.364.7311 Fax: 416.361.1398 bereskinparr.com

Claim 5, Column 48, line 22, "The hand vacuum cleaner of claim 1 on a horizontal surface" should read - - The hand vacuum cleaner of claim 1 wherein when the hand vacuum cleaner is positioned with the lower end of the hand vacuum cleaner on a horizontal surface - -

Claim 6, Column 48, line 26, "hand vacuum cleaner body" should read - - hand vacuum cleaner ~~body~~ - -

Claim 6, Column 48, lines 26-27, "the lower end on a horizontal surface" should read - - the lower end of the hand vacuum cleaner on a horizontal surface - -

Claim 12, Column 48, line 48, "the lower end on a horizontal surface" should read - - the lower end of the hand vacuum cleaner on a horizontal surface - -

Claim 13, Column 48, line 52 "the lower end on a horizontal surface" should read - - the lower end of the hand vacuum cleaner on a horizontal surface - -

Claim 14, Column 48, line 54, "rotation is positioned below longitudinal passage" should read - - rotation is position below ~~longitudinal~~ the passage - -

Claim 14, Column 48, line 56, "the lower end on a horizontal surface" should read - - the lower end of the hand vacuum cleaner on a horizontal surface - -

3. Please send the Certificate to:

Name: Philip C. Mendes da Costa
Address: Bereskin & Parr LLP/S.E.N.C.R.L., s.r.l.
P.O. Box 401, 40 King Street West
Toronto, Ontario, Canada
M5H 3Y2

Respectfully submitted,

BERESKIN & PARR LLP/S.E.N.C.R.L., s.r.l.

/Philip C. Mendes da Costa/

By _____
Philip C. Mendes da Costa
Reg. No. 33,106
Tel: 416 957 1695

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

Page 1 of 2

PATENT NO. : 10,219,661

APPLICATION NO.: 15/085,830

ISSUE DATE : March 5, 2019

INVENTOR(S) : Wayne Ernest Conrad

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Claim 1, Column 47, line 50, "an upper end and a bottom," should read -- an upper end and a lower end, --

Claim 1, Column 47, line 52, "a vacuum cleaner body" should read -- a hand vacuum cleaner body --

Claim 1, Column 47, line 63, "the upper end above the bottom," should read -- the upper end of the hand vacuum cleaner above the lower end of the hand vacuum cleaner and the lower end of the hand vacuum cleaner is on a horizontal surface, --

Claim 1, Column 48, line 4, "the upper end above the bottom," should read -- the upper end of the hand vacuum cleaner above the lower end of the hand vacuum cleaner and the lower end of the hand vacuum cleaner is on a horizontal surface, --

Claim 4, Column 48, line 20, "the hand vacuum cleaner body" should read -- the hand vacuum cleaner --

Claim 4, Column 48, line 21, "lower end on a horizontal surface." should read -- lower end of the hand vacuum cleaner on a horizontal surface. --

Claim 5, Column 48, line 22, "The hand vacuum cleaner of claim 1 on a horizontal surface" should read -- The hand vacuum cleaner of claim 1 wherein when the hand vacuum cleaner is positioned with the lower end of the hand vacuum cleaner on a horizontal surface --

Claim 6, Column 48, line 26, "hand vacuum cleaner body" should read -- hand vacuum cleaner --

Claim 6, Column 48, lines 26-27, "the lower end on a horizontal surface" should read -- the lower end of the hand vacuum cleaner on a horizontal surface --

MAILING ADDRESS OF SENDER (Please do not use Customer Number below):

Bereskin & Parr LLP/S.E.N.C.R.L., s.r.l.

40 King Street, 40th Floor, Toronto, Ontario, M5Y 3Y2, Canada

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 2 of 2

PATENT NO. : 10,219,661

APPLICATION NO.: 15/085,830

ISSUE DATE : March 5, 2019

INVENTOR(S) : Wayne Ernest Conrad

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Claim 12, Column 48, line 48, "the lower end on a horizontal surface" should read - - the lower end of the hand vacuum cleaner on a horizontal surface - -

Claim 13, Column 48, line 52 "the lower end on a horizontal surface" should read - - the lower end of the hand vacuum cleaner on a horizontal surface - -

Claim 14, Column 48, line 54, "rotation is positioned below longitudinal passage" should read - - rotation is position below the passage - -

Claim 14, Column 48, line 56, "the lower end on a horizontal surface" should read - - the lower end of the hand vacuum cleaner on a horizontal surface - -

MAILING ADDRESS OF SENDER (Please do not use Customer Number below):

Bereskin & Parr LLP/S.E.N.C.R.L., s.r.l.
40 King Street, 40th Floor, Toronto, Ontario, M5Y 3Y2, Canada

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: **Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Electronic Acknowledgement Receipt

EFS ID:	35618777
Application Number:	15085830
International Application Number:	
Confirmation Number:	9332
Title of Invention:	SURFACE CLEANING APPARATUS
First Named Inventor/Applicant Name:	Wayne Ernest Conrad
Customer Number:	1059
Filer:	Philip C. Mendes da Costa/Snezana Lisowsky
Filer Authorized By:	Philip C. Mendes da Costa
Attorney Docket Number:	10452-P46958US04
Receipt Date:	03-APR-2019
Filing Date:	30-MAR-2016
Time Stamp:	16:04:08
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Certificate of Correction	EFSWEB_P46958US04_Request_for_Certificate_of_Correction_2019-04-03.PDF	137937 2421124bcd89ab1d1725f84fede4df05903 0ec16	no	2

Warnings:

Information:					
2	Request for Certificate of Correction	EFSWEB_P46958US04_COC_2019-04_03.PDF	496069	no	2
			4e2a61c6d60988252a8e4c37666b2247ba77f6d9		
Warnings:					
Information:					
Total Files Size (in bytes):			634006		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 10,219,661 B2
APPLICATION NO. : 15/085830
DATED : March 5, 2019
INVENTOR(S) : Wayne Ernest Conrad

Page 1 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the Claims

Claim 1, Column 47, Line 50, "an upper end and a bottom," should read -- an upper end and a lower end, --

Claim 1, Column 47, Line 52, "a vacuum cleaner body" should read -- a hand vacuum cleaner body --

Claim 1, Column 47, Line 63, "the upper end above the bottom," should read -- the upper end of the hand vacuum cleaner above the lower end of the hand vacuum cleaner and the lower end of the hand vacuum cleaner is on a horizontal surface, --

Claim 1, Column 48, Line 4, "the upper end above the bottom," should read -- the upper end of the hand vacuum cleaner above the lower end of the hand vacuum cleaner and the lower end of the hand vacuum cleaner is on a horizontal surface, --

Claim 4, Column 48, Line 20, "the hand vacuum cleaner body" should read -- the hand vacuum cleaner --

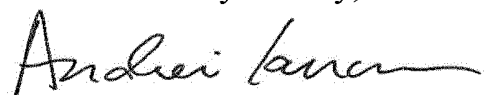
Claim 4, Column 48, Line 21, "lower end on a horizontal surface." should read -- lower end of the hand vacuum cleaner on a horizontal surface. --

Claim 5, Column 48, Line 22, "The hand vacuum cleaner of claim 1 on a horizontal surface" should read -- The hand vacuum cleaner of claim 1 wherein when the hand vacuum cleaner is positioned with the lower end of the hand vacuum cleaner on a horizontal surface --

Claim 6, Column 48, Line 26, "hand vacuum cleaner body" should read -- hand vacuum cleaner --

Claim 6, Column 48, Lines 26-27, "the lower end on a horizontal surface" should read -- the lower end of the hand vacuum cleaner on a horizontal surface --

Signed and Sealed this
Seventh Day of May, 2019



Andrei Iancu
Director of the United States Patent and Trademark Office

CERTIFICATE OF CORRECTION (continued)
U.S. Pat. No. 10,219,661 B2

Page 2 of 2

Claim 12, Column 48, Line 48, "the lower end on a horizontal surface" should read -- the lower end of the hand vacuum cleaner on a horizontal surface --

Claim 13, Column 48, Line 52, "the lower end on a horizontal surface" should read -- the lower end of the hand vacuum cleaner on a horizontal surface --

Claim 14, Column 48, Line 54, "rotation is positioned below longitudinal passage" should read -- rotation is position below the passage --

Claim 14, Column 48, Line 56, "the lower end on a horizontal surface" should read -- the lower end of the hand vacuum cleaner on a horizontal surface --