

(19)



(11)

EP 2 676 592 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
03.12.2014 Bulletin 2014/49

(51) Int Cl.:
A47L 9/04 (2006.01)

(43) Date of publication A2:
25.12.2013 Bulletin 2013/52

(21) Application number: **13171821.5**

(22) Date of filing: **13.06.2013**

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR
Designated Extension States:
BA ME

(30) Priority: **21.06.2012 KR 20120066643**

(71) Applicant: **LG Electronics, Inc.**
Seoul, 150-721 (KR)

(72) Inventors:
• **Lee, Seungyeop**
641-711 Gyeongnam (KR)
• **Kim, Jihwan**
641-711 Gyeongnam (KR)
• **Hyun, Kietak**
641-711 Gyeongnam (KR)

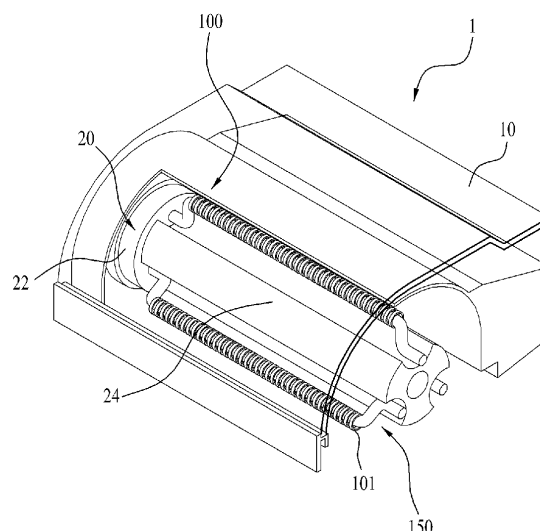
(74) Representative: **Urner, Peter**
Ter Meer Steinmeister & Partner
Mauerkircherstrasse 45
81679 München (DE)

(54) **Vacuum cleaner and suction nozzle for vacuum cleaner with agitator and striking member**

(57) There is disclosed a suction nozzle (1) and a vacuum cleaner that is able to efficiently perform cleaning for a cleaning surface by striking a cleaning surface, the suction nozzle (1) including a suction nozzle housing (10), an agitator (20) rotatably provided in the suction nozzle housing (10), a supporting member (150) extend-

ed from a center of the agitator (20) in a radial direction, the supporting member (150) configured to be rotatable with respect to the agitator (20), and a striking member (100) coupled to the supporting member (150) to strike a cleaning surface when the agitator (20) is operated.

FIG. 2



EP 2 676 592 A3



EUROPEAN SEARCH REPORT

Application Number
EP 13 17 1821

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	GB 338 414 A (SAMUEL GOTTFRID SVENSSON) 20 November 1930 (1930-11-20) * the whole document *	1,10,14,15	INV. A47L9/04
A	GB 344 713 A (WILLY LEHMANN) 12 March 1931 (1931-03-12) * the whole document *	1,10,14,15	
A	US 3 006 022 A (MAMONTOV VLADIMIR A) 31 October 1961 (1961-10-31) * the whole document *	1-7,15	
A	US 2 242 678 A (RIEBEL JR FREDERICK) 20 May 1941 (1941-05-20) * the whole document *	1,9,14,15	
			TECHNICAL FIELDS SEARCHED (IPC)
			A47L
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 22 October 2014	Examiner Masset, Markus
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 13 17 1821

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

22-10-2014

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
GB 338414 A	20-11-1930	GB 338414 A NL 29156 C	20-11-1930 22-10-2014
GB 344713 A	12-03-1931	NONE	
US 3006022 A	31-10-1961	NONE	
US 2242678 A	20-05-1941	NONE	

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82