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(54) Mop handle and directional head with a mechanism to aid wringing out the mop

(57) The present invention relates to the field of cleaning devices, and specifically to a mop with a handle and a directional head connected to a cleaning element

comprising the mop or cloth. The handle, the head and the mop replacement of the device of the present invention have an internal mechanism and are coupled so as to considerably facilitate the wringing out of the mop.

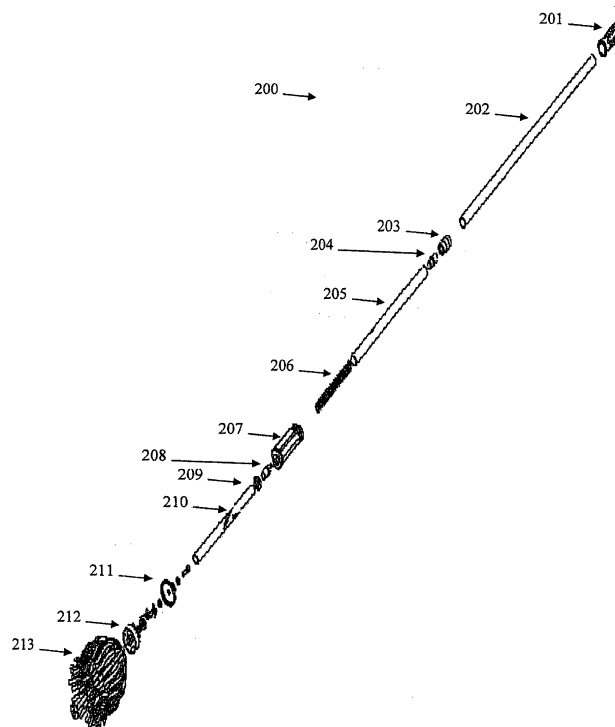


FIG. 2

EP 2 033 565 A3



EUROPEAN SEARCH REPORT

Application Number
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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	DE 20 2007 004390 U1 (KA0 TA CHUN [TW]) 12 July 2007 (2007-07-12)	1,4,5,7	INV. A47L13/142
A	* paragraphs [0028] - [0032] *	2,3,6, 8-11	
A	----- WO 99/26523 A (THOMASSON OLA [SE]) 3 June 1999 (1999-06-03) * page 8, line 2 - page 12, line 11 *	1-11	
A	----- WO 91/19450 A (KLOTZ MANFRED [DE]) 26 December 1991 (1991-12-26) * page 7, line 28 - page 9, line 5 *	1-11	
A	----- US 5 890 253 A (MORAD FRED I [US]) 6 April 1999 (1999-04-06) * abstract *	1-11	
			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 28 November 2008	Examiner Eckenschwiller, A
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			

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EPO FORM 1503 03.02 (P04C01)



Application Number

EP 08 01 5431

CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

☒ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

see additional sheet(s)

☐ The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).



**LACK OF UNITY OF INVENTION
SHEET B**

Application Number
EP 08 01 5431

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-11

a cleaning device comprising an elastic member for forcing the handle to return to its maximum length

2. claims: 12-14

a mop part comprising a crown of clips for removably coupling said mop part

3. claims: claims 15-19

a selection control comprising a pin for sliding through a groove of a guide tube of a handle

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

EP 08 01 5431

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
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28-11-2008

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