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(54) **Liquid filter for a vacuum cleaner**

(57) To establish in the vacuum cleaner reservoir of a vacuum cleaner a wet sprinkling process to take away from ambient air and /or from air sucked up at least the dust, such reservoir is provided with a chain of components comprised by: a removable tubular appendix (2); a bag-like multitask filter (101); a multitask flanged drum (5), whose upper flange (55) provides a "u" cross-sectioned water tight channel and whose bottom flange (5') includes a number of sprinkling passages (100); an annular droplet wall or dam (6); a four-legged spacer or support (12); a filter (8) made by mineral imputrescible fibres; and a water pool. The optimum of the members of the chain may be determined by the formula:

$$\text{Efficiency } E = \frac{Q \cdot D}{T \cdot 1 + (u_0 \pm u_e)};$$

wherein

Q = Fluid flow; D = Degree of drop distribution T =
Water transfer;

u_0 = Optimal wetting (of the filter) u_e = Actual wet-
ting (of the filter)

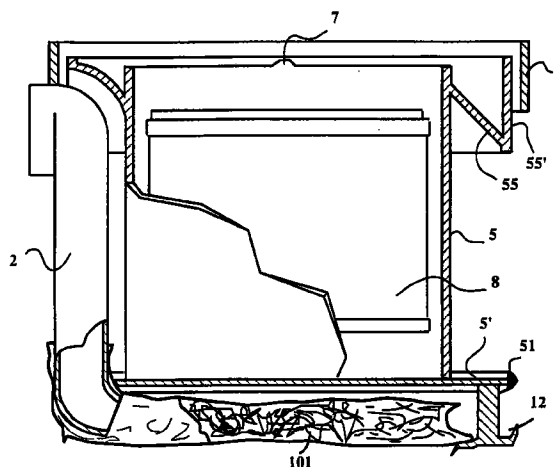


FIG. 7

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EUROPEAN SEARCH REPORT

Application Number
EP 95 11 1182

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	DE-U-93 12 156 (WAP REINIGUNGSSYSTEME GMBH & CO) * page 2 - page 8; figures * ---	1	A47L9/18
A	DE-A-41 07 535 (YOO, BYOUNG HYOUNG & CO) * column 2, line 24 - column 6, line 11; figures * ---	1	
A	WO-A-91 10392 (H. ZENGERER) * abstract * ---	1	
A	US-A-2 468 934 (T.P. KLEYN) * column 1, line 26 - column 3, line 12; figures * ---	1	
A	PATENT ABSTRACTS OF JAPAN vol. 14, no. 522 (C-0778), 15 November 1990 & JP-A-02 215434 (SANYO ELECTRIC CO LTD), 28 August 1990, * abstract * ---	1	
A	PATENT ABSTRACTS OF JAPAN vol. 14, no. 535 (C-0781), 26 November 1990 & JP-A-02 224721 (SANYO ELECTRIC CO LTD), 6 September 1990, * abstract * ---	1	TECHNICAL FIELDS SEARCHED (Int.Cl.6) A47L
A	PATENT ABSTRACTS OF JAPAN vol. 16, no. 320 (C-0962) [14] , 14 July 1992 & JP-A-04 092636 (SANYO ELECTRIC CO LTD), 25 March 1992, * abstract * -----	1	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 23 July 1996	Examiner Vanmol, M
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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