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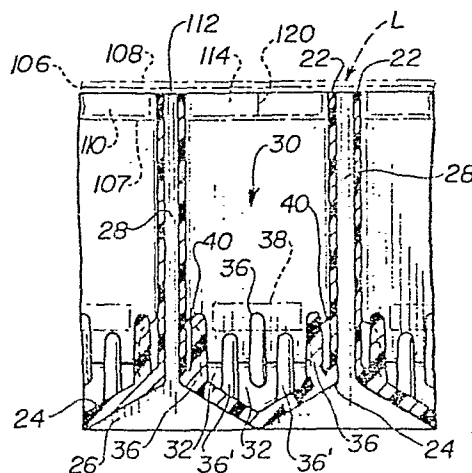
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⑦① Applicant: **E.I. DU PONT DE NEMOURS AND COMPANY**
1007 Market Street
Wilmington Delaware 19898(US)
 ⑦② Inventor: **Chow, Allan Tit-Shing**
109 Danbury Drive
Wilmington Delaware 19803(US)
 ⑦② Inventor: **Staunton, Harold Francis**
R.D. No. 2 Box 322A
Avondale Pennsylvania 19311(US)
 ⑦④ Representative: **von Kreisler, Alek, Dipl.-Chem. et al,**
Deichmannhaus am Hauptbahnhof
D-5000 Köln 1(DE)

⑤④ **Self-cleaning ultrasonic horn.**

⑤⑦ An ultrasonic horn (66) having a bore (88) extending therethrough has an inwardly directed shoulder (92) located substantially at a vibratory antinode of the horn. The shoulder narrows the diameter of the bore and imparts an agitating action to liquid in the vicinity thereof to scrub the bore.

Fig. 2





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. 4)
Y	AT-B- 350 493 (J. LANGENECKER) * Figures; page 2, lines 1,2,20-22,29-37; page 3, lines 34-43; page 4, lines 12-22,30-36 *	1,2	B 06 B 3/02 B 01 J 19/10 B 01 F 11/02 B 01 L 3/00
Y	DE-C- 727 155 (R. SCHÖFER) * Figure 1; page 2, lines 33-62 *	1,2	
A	US-A-4 016 436 (A. SHOH) * Figures 1,2; column 1, lines 1-24,45-56; column 2, line 43 - column 3, line 14; column 3, lines 45-66 *	1,2	
A,D	ULTRASONICS, October 1967, pages 214-218, Guildford, GB, E.G. LIERKE: "Ultrasonic atomizer incorporating a self-acting liquid supply" * Figures 8,12; column 2, lines 23-26 *	1	
A	GB-A-2 032 221 (A.E. CRAWFORD) * Figure; page 1, lines 10-15,50-57; page 2, lines 38-43,95-99 *	1,2	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			B 06 B B 01 F
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 14-03-1988	Examiner HOCQUET A. P. E.
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p>			