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⑤④ **Hydrocyclones.**

⑤⑦ A small hydrocyclone (maximum vortex chamber diameter in the range 7 to 14 mm), particularly for use in separating starch from a starch-containing feedstock, has a feed passage (7) leading via a volute (8) into the vortex chamber (3, 4) of the hydrocyclone. The feed passage (7) is formed so that its hydraulic radius (i.e. the ratio of the cross-sectional area of the feed passage to the peripheral extent of the cross-section) is in the range 5.7 to 6.5% of the diameter of the vortex chamber. By this means the feed energy requirements of the hydrocyclone for achieving a given separating efficiency are reduced.

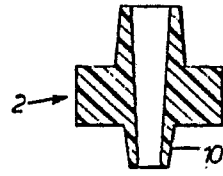
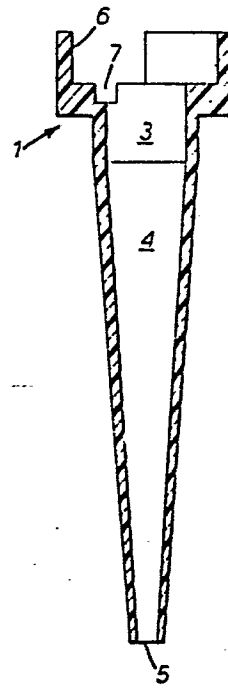


FIG. 1.





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)
A, D	GB-A- 763 291 (STAMICARBON)  * Page 1, line 78 - page 2, line 2; page 2, lines 47-67; page 4, lines 1-35; figure 3 *	1, 2, 5-9	B 04 C 5/081 B 04 C 5/02 B 04 C 5/00
A	GB-A- 870 606 (T.R. NAYLOR) * Whole document *	1, 2, 5	
A	CH-A- 248 467 (K. TOMASINI) * Whole document *	1, 3, 4	
A	GB-A- 473 484 (A.J. TER LINDEN) * Page 1, lines 23-49; page 2, line 39 - page 3, line 3; page 3, lines 78-94; figure 5 *	1, 3, 4	
A	FR-A-2 099 400 (SIEMENS) * Page 2, line 2 - page 4, line 2; page 4, line 20 - page 6, line 39; page 8, lines 7-22; figures 1, 2 *	1	
A	DE INGENIEUR, vol. 77, no. 2, 8th January 1965, pages W1-W8, NL; H.J. VAN EBBENHORST TENGBERGEN: "Dust cyclones - law of similarity - influence of the dust concentration"		
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 18-11-1985	Examiner LAVAL J.C.A
<p><b>CATEGORY OF CITED DOCUMENTS</b></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 &amp; : member of the same patent family, corresponding document</p>			



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)
A, D	US-A-2 689 810 (J. VEGTER)  -----		
			TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
The present search report has been drawn up for all claims			
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