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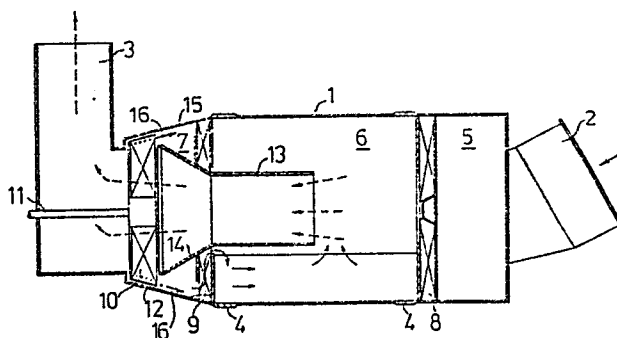
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54 **Gas-swept tube mill with built-in separator rotor.**

57 A gas-swept tube mill has an inlet (2), a grinding chamber (6), a discharge chamber (7) and an outlet (3). The discharge chamber contains a separating rotor (10) which causes coarse fractions of the material to be flung outwards and returned via a scoop (9) to the grinding chamber for further grinding. The vanes of the rotor are surrounded by a frustoconical casing (12) which collects the coarse fraction and directs it backwardly over a correspondingly frustoconically shaped wall (15) of the discharge chamber to the scoop (9). The material is swept from the grinding chamber into the discharge chamber through a spreader (13) having a frustoconically flared outlet (14) which spreads the material over the face of the rotor.





European Patent
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EUROPEAN SEARCH REPORT

0119694

Application number

EP 84 30 0456

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. 3)
Y	US-A-2 185 960 (FL. SMIDTH & CO.) * Figure 1; page 1, right-hand column, lines 32-48; page 2, left-hand column, lines 32-45 *	1-4	B 02 C 17/06 B 02 C 17/18
Y	--- US-A-1 430 432 (BITTNER) * Whole document *	1-4	
A	--- US-A-3 231 203 (HARDINGE et al.) * Figure 8 *	1,2	
D,A	--- US-A-3 949 940 (HORNING) * Figure 5 * & GB - A - 1 397 377	1	
A	--- US-A-3 718 286 (FAGERHOLT) * Figures 1,5 * -----	4	TECHNICAL FIELDS SEARCHED (Int. Cl. 3) B 02 C
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 29-04-1986	Examiner CARMICHAEL D.G.
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	