

(12)

EUROPEAN PATENT APPLICATION

(21) Application number: 84306892.5

(51) Int. Cl.⁴: **B 02 C 19/00**
B 02 C 23/00

(22) Date of filing: 10.10.84

(30) Priority: 11.10.83 GB 8327201

(43) Date of publication of application:
08.05.85 Bulletin 85/19

(88) Date of deferred publication of search report: 30.04.86

(84) Designated Contracting States:
AT BE CH DE FR IT LI LU NL SE

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(54) **Apparatus for and method of obtaining a comminuted product from a solid feed material.**

(57) An apparatus for obtaining a comminuted "fines" product from a solid feed material, a large proportion of the particles of which are greater than 1cm, comprises a housing having a lower region forming a crusher (10) and an upper region forming a classifier (11). There is an inlet for the solid feed material leading to a hopper (22) from whence feed material passes to a rotor (13) which causes the material to be flung centrifugally outwards in the crushing chamber (23) where it is comminuted. As a result of movement of the rotor, there is a predominantly upward air flow (F) from the crushing chamber (23) to the classifier (11). This air flow entrains a high proportion of "fines" which can be classified, in the classifier (11) using vanes (21), and collected.

The apparatus is capable of producing an output product having a very high proportion of "fines" from even very abrasive feed material with particles of a size up to 5cm.

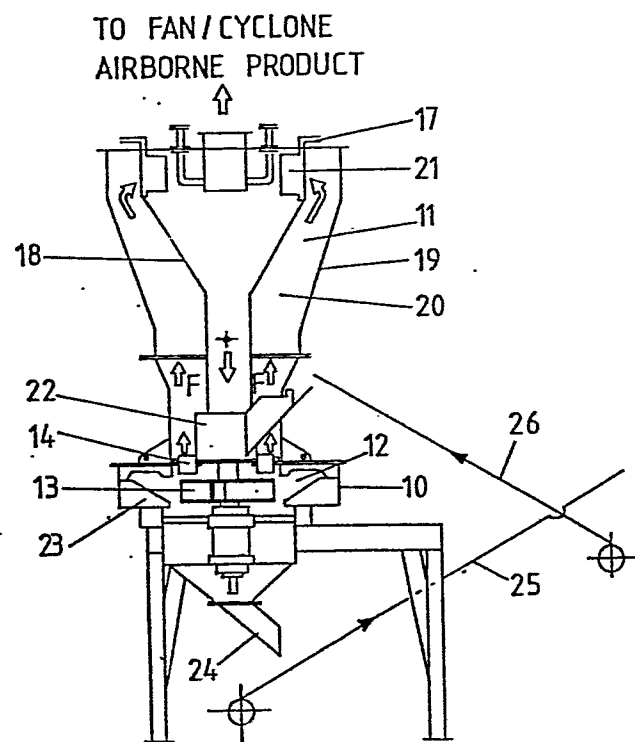


FIG. 2.



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EUROPEAN SEARCH REPORT

0140613

EP 84 30 6892

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	GB-A- 376 760 (FEUERHEERD) * Page 6, lines 7-10, 120-130; page 7, lines 1-5, 64-80, 119-123; page 8, lines 99-121; page 7, lines 48-53 *	1-3	B 02 C 19/00 B 02 C 23/00 B 02 C 13/14
A	---	6	
Y	US-A-3 995 784 (IZQUIERDO) * Page 1, abstract; column 2, lines 4-40 *	1-3, 5	
Y, P	---	1-3	
A, P	EP-A-0 102 742 (BARMAC) * Page 1; abstract; page 6, lines 1-27; page 4, lines 11-16 *	4	TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
Y, D	---	1-3, 5	B 02 C
Y, D	US-A-3 162 382 (DANYLUKE) * Column 6, lines 67-75; column 7, lines 1-41 *	1-3	

	FR-A-2 201 928 (MACDONALD) * Page 9, lines 1-13; figure 1 * & GB - A - 1 439 639		

The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 17-01-1986	Examiner VERDONCK J.C.M.J.
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	