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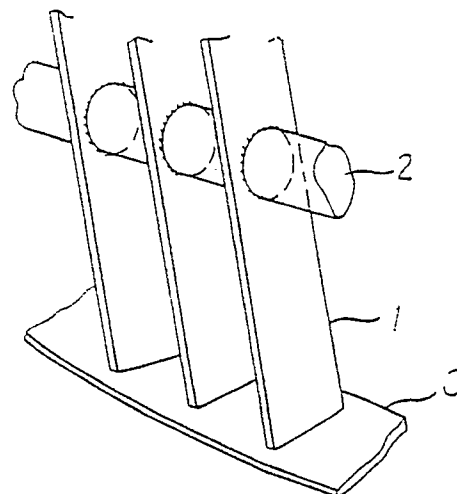
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54 **Rotary separator for use in pulverizer.**

57 The known separator for use in pulverizer of the type that a plurality of blades (1) are disposed about a substantially vertical center axis of rotation as separated by a predetermined radius therefrom and as directed in the vertical direction, is improved so that a cross-section area of passage of airflow between blades can be taken broad and yet it may not be varied even under influence of a centrifugal force. The improvements reside in that the blade (1) is made of a flat plate rather than a shaped material, and that the separator is provided with an annular body (2) for connecting the blades so as to surround the center axis of rotation. A tension to be generated in the annular body (2) as a result of a centrifugal force and a reinforcement effect of the annular body (2) are mathematically analyzed as a basis of design of the improved rotary separator.

Fig. 2



EP 0 337 238 A3



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	EP-A-0 172 731 (KAWASAKI JUKOGYO K.K.) * Page 13, lines 10-19; figures 1,2,13,14,24A * ---	1,2	B 02 C 23/32 B 07 B 7/083
A,P	EP-A-0 283 682 (MITSUBISHI JUKOGYO K.K.) * Figure 10 * -----	1,2	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			B 02 C B 07 B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 04-04-1990	Examiner VERDONCK J.C.M.J.
<div>CATEGORY OF CITED DOCUMENTS</div> <div><div>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</div><div>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</div></div>			