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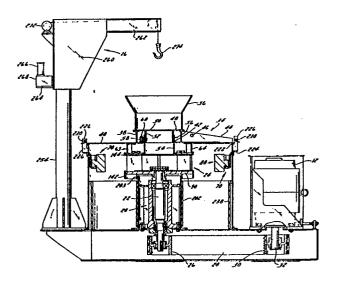
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Guard rings for vertical shaft impact crusher.

57 A vertical shaft impact crusher having a rotor (24) mounted for rotation about a vertical axis on a vertical shaft (22) supported by a central bearing, and an impeller mounted on that shaft so that rock fed into the crusher is caught by the spinning impeller and thrown against an adjacent breaker ring (70), and is broken; wherein the crusher is provided with guard rings (63, 144, 142, 203) mounted telescopically and concentrically with the vertical shaft (22) forming a labyrinth seal, and also above and below the impeller to restrict the entrance of rock dust and rock fragments to the rotor shaft (22) and bearing; and a plurality of upper and lower wear plates which line the impeller to retard its erosion and are designed to be easily replaceable.





Application number

EP 85 63 0093

ategory		Citation of document with indication, where appropriate, of relevant passages		CLASSIFICATION OF THE APPLICATION (Int. Ci.4)	
K	US-A-3 148 840 (* Figure 1; co 7-10,39-41; figure lines 35-45 *	olumn 3, lines	1,2,6,	B 02 C 13/18	
A.			5		
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A	FR-A-2 371 233 * Figure; page 6	- (CREUSOT-LOIRE) , lines 3-5 *	2	B 02 C	
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	The present search report has b	een drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 10-09-1986		Examiner MICHAEL D.G.	
Y : pa	CATEGORY OF CITED DOCL articularly relevant if taken alone articularly relevant if combined w ocument of the same category ichnological background on-written disclosure	E: earlier p after the ith another D: docume	r principle unde atent document filing date nt cited in the a nt cited for othe	erlying the invention t, but published on, or pplication er reasons	