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54 **Gemstone polishing apparatus.**

57 In order to centre the residual imbalance of a scaife (5), the scaife (5) is carried on an air bearing (6) which is axially stiff but allows radial float, and is driven by a motor (2) which is carried on silent blocks (3) which are axially stiff but allow radial float of the motor (2). The motor (2) is driven at a speed above the first radial critical frequency of the system formed by the motor (2), motor shaft (4) and scaife (5) and its mounting.

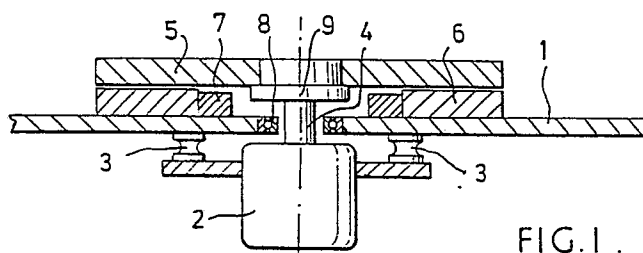


FIG. 1.



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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	BE-A- 400 215 (P. SCHALEKENS) * Claim 1; figures * ---	1,17	B 24 B 9/16 B 24 B 37/04 B 24 B 41/04
A	FR-A-2 530 993 (MASCHINENFABRIK GEHRING GmbH & CO.) * Figure 1; abstract * ---	1,17	
A	VDI-ZEITSCHRIFT, vol. 130, no. 5, May 1988, pages 57-60, Düsseldorf, DE; H.K. TÖNSHOFF et al.: "Verstellbarer passiver Dämpfer für Schwingungen in Aussenrundscheifmaschinen" ---	1,17	
A	US-A-4 180 946 (M.C.D. HEIJKENSKJOLD) ---		
A	US-A-3 130 523 (G. MONNET) -----		
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			B 24 B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 12-09-1989	Examiner ESCHBACH D.P.M.
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			