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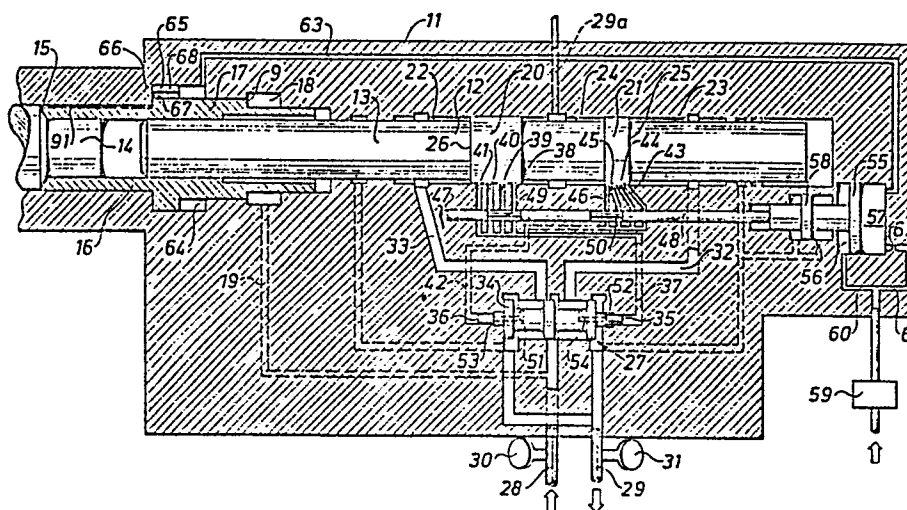
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(54) **Method of controlling an impact motor and an impact motor.**

(57) In a rock drill, the feed force is transmitted from the housing 11 on the rock drill to the drill stem or drill stem adapter 14 via a damping piston 17. The damping piston 17 rebounds by the reflected compressive shock waves and the rebound is sensed and used to control a control pin 48 which adjusts the stroke length of the hammer piston 13 so that the reflected shock wave energy is minimized.

Fig. 1





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	EP-A-0 035 005 (EKLÖF) * whole document * ---	1-7	B 25 D 9/26 B 25 D 9/12 B 25 D 17/24 E 21 C 3/20
Y	FR-A-2 304 449 (ATLAS COPCO) * page 4, lines 1-22; figure 3 * ---	1-7	
Y	DE-A-2 654 200 (MONTABERT) * whole document * -----	1-7	
			TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
			B 25 D
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 18-10-1984	Examiner BENZE W.E.
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p>			