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EUROPEAN PATENT APPLICATION

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⑦① Applicant: **Atlas Copco Aktiebolag, Nacka,
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Bulletin 84/27**

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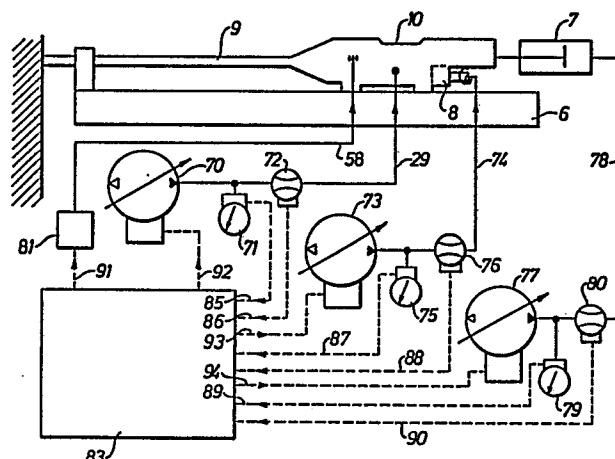
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⑤④ **A rock drilling apparatus and a method of optimizing percussion rock drilling.**

⑤⑦ The impact velocity and impact frequency of the hammer piston of a percussion rock drill (10) are varied in incremental steps in order to find the maximum penetration rate. The frequency and impact velocity are so varied that the impact power is kept substantially constant all the time. A micro-computer (83) is used to control the process.





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. ³)
P, Y	EP-A-0 080 446 (WIJK et al.) * The whole document *	1-7	B 25 D 9/26 E 21 C 5/16 E 21 C 3/20
Y	--- US-A-4 195 699 (ROGERS et al.) * The whole document *	1-7	
A	--- FR-A-2 504 049 (KLEMM)		
A	--- AU-B- 42 272 (MAYER et al.) (1978) -----		
			TECHNICAL FIELDS SEARCHED (Int. Cl. ³)
			B 25 D E 21 C
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 23-04-1985	Examiner BENZE W.E.
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	