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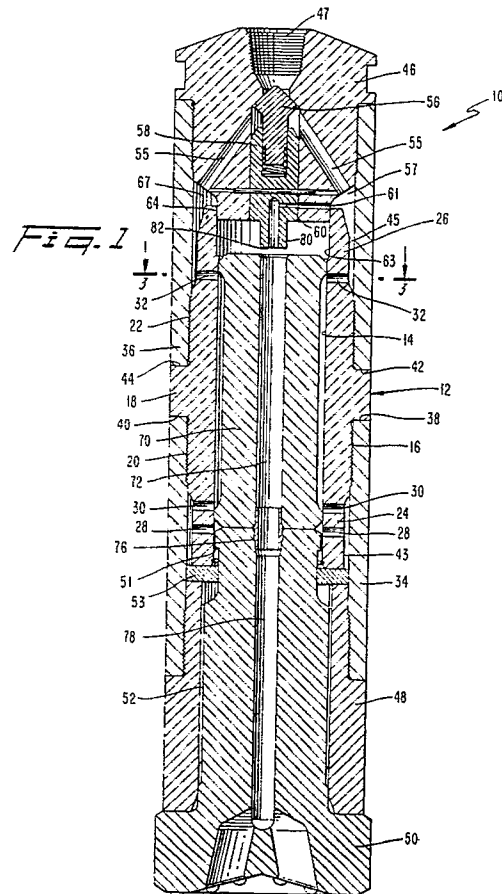
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(54) **Percussion drill.**

(57) A percussion drill includes a control arbor (18) in which a hammer piston (70) is longitudinally reciprocally disposed. Front (34) and rear (36) casing sections are threadedly coupled to the control arbor (18) in a manner preventing longitudinal movement of the arbor relative to the casing sections. A drill bit (50) is secured to the front casing section (34), and is repeatedly struck by the piston (70) to effect a percussion drilling operation. A rear sub (46) is secured to the rear casing section (36), and a front end (64) of the rear sub projects telescopically into a rear end (63) of the control arbor to radially support the latter.



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EUROPEAN SEARCH REPORT

Application Number

EP 90 85 0080

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.5)
A	US-A-4 705 119 (KOSTYLEV) * Whole document *	1	E 21 B 4/14
A	US-A-4 194 581 (WALTER) * Figures 1a, 6a *	1	
A	US-A-3 424 065 (KURT) * Abstract; figures *	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			E 21 B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 28-03-1991	Examiner WEIAND T.
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			