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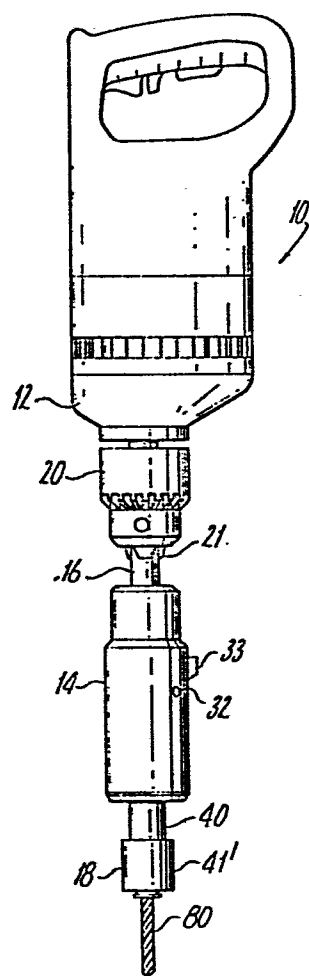
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⑤④ **Power tool adapter assembly.**

⑤⑦ An adapter and adapter assembly for a torquing tool (10) includes a reversible adapter (18) and a sleeve (14) having an adjustable extension member (16). The adjustable extension member joins the sleeve to the power unit (12) and accommodates a range of drill bit (80) lengths when the adapter is in a fastener driver mode. The adapter is reversible within the sleeve and includes an elongated body having a bore at one end to accommodate a working member such as a drill bit (80) and a bore at the other end to accommodate a fastener driver. The adapter body includes an internally tapped bore threadably accommodating a set screw against which the driver abuts. This provides a depth adjustment for the driver. Grooves are provided for detachable connection to the sleeve. A quick release means housed within the adapter detachably retains the working member within the bore and to the elongated body and means associated with said bore and said working member for transmitting torque from the tool to the working member. The preferred quick release means is a spring loaded shuttle positioned in an opening radially through the body member and in communication with the bore. The preferred torque transmitting means is a pair of corresponding, opposed surfaces disposed on the bore and working member respectively.

Fig.1.





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EUROPEAN SEARCH REPORT

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Application number

EP 83 30 1064

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)
X	US-A-3 023 015 (PANKOW) * Figures 1-6 *	1	B 25 B 21/00
Y		3, 4	
A		8	
X	DE-A-2 022 372 (MALIK) * Figure 2 *	1	
Y	FR-A-1 103 112 (KRCHNYAK) * Figures 1-5 *	3, 4	TECHNICAL FIELDS SEARCHED (Int. Cl. 3) B 25 B B 25 F B 25 G
D, A	US-A-3 965 510 (ERNST) * Abstract *	1	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 30-09-1985	Examiner LOKERE H.P.

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
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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
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