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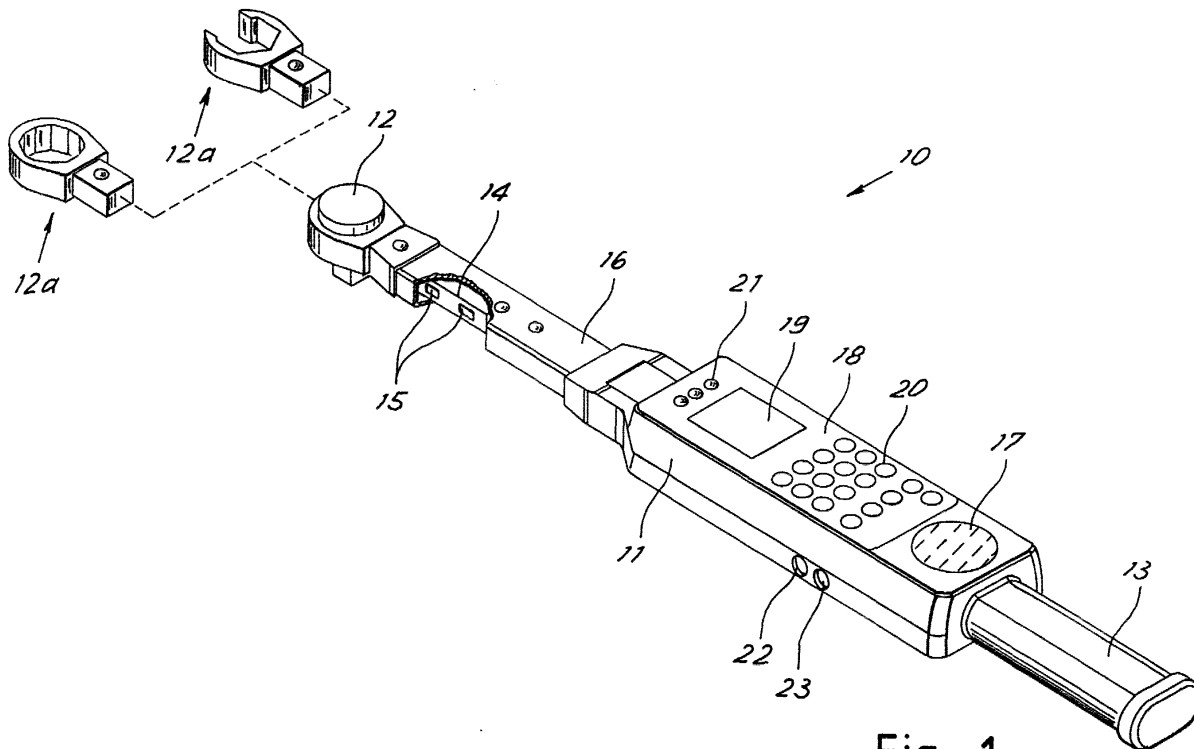
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(54) **Torque wrench with angle sensor without external reference**

(57) An electronic torque wrench comprises a head (12) for coupling with a member to be tightened, a first sensor (14) for detecting the torque generated on the

head upon moving the wrench, a second sensor made up of a gyroscope (17) for detecting angular rotation of the head, means of calculation to find from the sensor detection information considered significant.



**Fig. 1**



European Patent  
Office

EUROPEAN SEARCH REPORT

Application Number  
EP 00 20 0210

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Place of search		Date of completion of the search	Examiner
MUNICH		2 December 2002	Kühn, T
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone		T : theory or principle underlying the invention	
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**ANNEX TO THE EUROPEAN SEARCH REPORT  
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