

Title (en)  
PORTABLE MAGNETIC TRANSDUCER

Title (de)  
TRAGBARES GERÄT MIT EINEM MAGNETWANDLERKOPF

Title (fr)  
TRANSDUCTEUR MAGNETIQUE PORTABLE

Publication  
**EP 1360468 A1 20031112 (EN)**

Application  
**EP 02718048 A 20020124**

Priority  
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Abstract (en)  
[origin: WO02059555A1] A hand-held unit for measuring torque has a magnetic structure (40) with two-spaced pole ends (44a:44b) of opposite polarity applicable at or adjacent to the surface of a portion (32) of a rotating shaft (30) of ferromagnetic material, the poles (44a:44b) being spaced in the direction of the shaft axis. An axially-directed, surface-adjacent magnetic flux (52) is induced in the local portion of the shaft (30) between the poles. A magnetic sensor device (60) intermediate the poles (44a:44b) is oriented to detect a torque-dependent component of the induced magnetic field external to the shaft surface. The magnetic structure incorporates a magnetic source (16) provided by a permanent magnet (46') or a D.C. or A.C. energised coil (50).

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