Title (en)

METHOD TO CALIBRATE AN ELECTRONIC DYNAMOMETRIC WRENCH

Publication

EP 0293310 B1 19910508 (FR)

Application

EP 88420167 A 19880526

Priority

FR 8707833 A 19870527

Abstract (en)

[origin: US4864841A] An electronic torque wrench equipped with at least two strain gages placed on both sides of a crosswise plane on a part forming a sensor and each supplying an output voltage, C1 and C2 respectively, which, depending on torque C applied by the wrench to an actuation point A, reacts on an electronic circuit indicating this torque. The wrench comprises a first electronic circuit for determining and storing a constant factor k during a calibration measurement for which torque C is applied at actuation point A is made zero by a parasitic force F' applied in the opposite direction of actuation force F and at a point E of the wrench other than point B of application of the latter force F, the constant factor k being used during each use of the wrench by the electronic circuit to determine, with second circuit and by application of the formula C=C1+k(C1-C2), the value of torque C applied to actuation point A as a function of torques C1 and C2 actually measured respectively by the at least two strain gages.

IPC 1-7

B25B 23/142

IPC 8 full level

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CPC (source: EP US)

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EP 0293310 A1 19881130; **EP 0293310 B1 19910508**; AT E63251 T1 19910515; DE 3862682 D1 19910613; ES 2022688 B3 19911201; FR 2615948 A1 19881202; FR 2615948 B1 19891027; US 4864841 A 19890912

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