

Title (en)

Measuring method for determining the displacement of a movable part of an actuator and device for applying the measuring method

Title (de)

Messverfahren zur Bestimmung der Bewegung eines bewegbaren Teils eines Stellglieds und Vorrichtung zur Anwendung des Messverfahrens

Title (fr)

Procédé pour mesurer le mouvement d'une pièce mobile d'un vérin, et dispositif pour appliquer le procédé

Publication

EP 1429038 A1 20040616 (EN)

Application

EP 03078838 A 20031205

Priority

NL 1022128 A 20021210

Abstract (en)

Measuring method and device for determining the displacement of a movable part of an actuator such as the axial and/or rotational movement of the piston rod (7) in relation to the cylinder housing (2) with a pressurized medium-operated cylinder (1). Optical means (12) are applied, which can be aimed at the outer surface of the movable part of an actuator, such as the piston rod (7). The light reflected by the movable part (7) is absorbed by an absorbing chip (13) suitable for it, which electronically, by means of a converter (16) produces a signal, from which the position or the velocity of the movable part (7) can be determined. The piston rod (7) can have undergone the usual polishing processing. The optical means (12) comprise the means as they are applied in a computer mouse. <IMAGE>

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F15B 15/28

IPC 8 full level

F15B 15/28 (2006.01)

CPC (source: EP)

F15B 15/2876 (2013.01)

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- [X] GB 2335980 A 19991006 - BAMFORD EXCAVATORS LTD [GB]
- [X] DE 8627037 U1 19870108
- [X] GB 2068150 A 19810805 - RANSBURG CORP
- [X] PATENT ABSTRACTS OF JAPAN vol. 012, no. 182 (M - 702) 27 May 1988 (1988-05-27)

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