

Title (en)

Device for determining the position of a moving piston rod with respect to a cylinder

Title (de)

Einrichtung zur Erfassung der Position einer beweglichen Kolbenstange gegenüber einem Zylinder

Title (fr)

Dispositif pour la détermination de la position d'une tige mobile par rapport à un cylindre

Publication

**EP 1653089 A1 20060503 (DE)**

Application

**EP 05109726 A 20051019**

Priority

US 97433004 A 20041027

Abstract (en)

Shaft's axial position detecting method involves providing a shaft (28) with a metallic region from a surface of the shaft to a radial depth from the surface at a longitudinal position. An eddy current is sensed to detect an alignment of one of two hardened metallic regions with a fixed sensing region at a respective time. A longitudinal position of the shaft is determined with respect to a cylinder (12) at the respective time based on the sensed current. An independent claim is also included for a system for detecting a position of a movable unit associated with a cylinder.

IPC 8 full level

**F15B 15/28** (2006.01)

CPC (source: EP US)

**F15B 15/2846** (2013.01 - EP US); **F15B 15/2861** (2013.01 - EP US); **F15B 15/2869** (2013.01 - EP US)

Citation (search report)

- [A] EP 0618373 A1 19941005 - HYDRAUDYNE CYLINDERS BV [NL]
- [X] PATENT ABSTRACTS OF JAPAN vol. 015, no. 382 (P - 1257) 26 September 1991 (1991-09-26)
- [X] PATENT ABSTRACTS OF JAPAN vol. 016, no. 082 (M - 1215) 27 February 1992 (1992-02-27)
- [A] PATENT ABSTRACTS OF JAPAN vol. 014, no. 195 (P - 1039) 20 April 1990 (1990-04-20)
- [A] PATENT ABSTRACTS OF JAPAN vol. 014, no. 378 (M - 1011) 15 August 1990 (1990-08-15)

Cited by

CN104422730A; CN102565728A; CN106482627A

Designated contracting state (EPC)

DE GB

DOCDB simple family (publication)

**EP 1653089 A1 20060503**; **EP 1653089 B1 20081231**; DE 502005006367 D1 20090212; US 2006087313 A1 20060427; US 7116097 B2 20061003

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