

Title (en)

RAM CYLINDER WITH AN ELECTRIC SENSOR FOR THE END POSITION OF THE PISTON

Publication

EP 0258279 B1 19890927 (DE)

Application

EP 87900648 A 19870114

Priority

DE 3603992 A 19860208

Abstract (en)

[origin: WO8704763A1] A ram cylinder (1, 3, 4) having an electric sensor for the end position of the piston is designed as a piezoelectric transformer (17 resp. 18). When voltage is applied to the piezoelectric transformer (17 resp. 18), the latter becomes an actuating element which overcomes a force that retains the piston (2) in its end-of-stroke position and drives the piston (2) away from the position where it seals the inlet passage (7 resp. 8) for the medium under pressure.

IPC 1-7

F15B 15/26; F15B 15/28

IPC 8 full level

G01B 7/00 (2006.01); **F15B 15/26** (2006.01); **F15B 15/28** (2006.01)

CPC (source: EP US)

F15B 15/26 (2013.01 - EP US); **F15B 15/2815** (2013.01 - EP US)

Citation (examination)

DE 3014331 C2 19820311

Cited by

CN103775421A

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

WO 8704763 A1 19870813; DE 3603992 A1 19870820; DE 3760634 D1 19891102; EP 0258279 A1 19880309; EP 0258279 B1 19890927; JP H0776563 B2 19950816; JP S63502296 A 19880901; US 4843951 A 19890704

DOCDB simple family (application)

DE 8700013 W 19870114; DE 3603992 A 19860208; DE 3760634 T 19870114; EP 87900648 A 19870114; JP 50062287 A 19870114; US 13087787 A 19871006