

Title (en)  
Position indicator

Title (de)  
Positionsanzeiger

Title (fr)  
Indicateur de position

Publication  
**EP 0618373 B1 19990901 (EN)**

Application  
**EP 94200818 A 19940328**

Priority  
NL 9300565 A 19930330

Abstract (en)  
[origin: EP0618373A1] Apparatus for determining the position of a piston rod (1) relative to a reference point, in which the circumference surface of the surface rod (1) comprises a substantially tangentially directed profiling (2) with a pattern repeating itself in the axial direction, comprising a magnetic member which has been fixed relative to the reference point for generating a magnetic field, which is affected by the profiling (3); at least two sensor (6) fixed relative to the reference point for sensing the strength of the magnetic field, and a processing circuit for processing the signals generated by the sensor (6), in which the sensors (6) have a mutual distance in the axial direction, which equals an integer multiple of the pitch of the profiling (2) plus or minus a quarter of the pitch, whereby the sensors (6) each comprise a magnetoresistive element being integrated into a bridge circuit. <IMAGE>

IPC 1-7  
**F15B 15/28**

IPC 8 full level  
**F15B 15/28** (2006.01)

CPC (source: EP)  
**F15B 15/2846** (2013.01); **F15B 15/2861** (2013.01)

Cited by  
DE102014212382A1; WO02086330A1; EP1653089A1; CN102011763A; JP2007240531A; EP1832758A3; DE10119941A1; CN105221524A; US8058867B2; US7116097B2; US7631592B2; US6752171B1; WO0114750A3; US6922158B2

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**EP 0618373 A1 19941005; EP 0618373 B1 19990901**; DE 69420299 D1 19991007; DE 69420299 T2 19991230; NL 9300565 A 19941017

DOCDB simple family (application)  
**EP 94200818 A 19940328**; DE 69420299 T 19940328; NL 9300565 A 19930330