

Title (en)
DAMPER

Title (de)
DÄMPFER

Title (fr)
AMORTISSEUR

Publication
EP 1220961 B1 20040225 (DE)

Application
EP 00971282 A 20000922

Priority
• DE 19949520 A 19991014
• EP 0009282 W 20000922

Abstract (en)
[origin: WO0127375A1] The invention relates to a damper (5), especially for washing machines with a spin gear, comprising a push rod (13) which is moveably guided in a housing (11) and extends out from the end of said housing; and a push rod position measuring device for determining the depth (T) to which the push rod (13) is pushed into the housing (11). Said device has a first measuring element which is connected to the housing (11) and a second measuring element which is connected to the push rod (13), for electrically and/or magnetically interacting with the first measuring element. The first and second measuring elements can be pushed into each other. An evaluating unit (57) for giving electrical signals and for receiving and processing electrical signals for determining the depth (T) to which the push rod (13) is pushed into the housing (11) is provided and is electroconductively connected to the first measuring element or the second measuring element. A friction damping unit for producing a predetermined friction damping effect is also provided between the housing (11) and the push rod (13). The push rod (13) can be displaced almost stictionlessly in relation to the housing (11) within the range of a predetermined change in the depth (T) to which the push rod (13).

IPC 1-7
D06F 37/20

IPC 8 full level
D06F 37/20 (2006.01)

CPC (source: EP)
D06F 37/20 (2013.01)

Cited by
EP2319972A1; DE102005038953A1; DE102008049907B4; USRE45461E; US7971693B2; DE102008049907A1; WO2008012651A3; US8432160B2; EP2698465A1; EP2372184A1; WO2011120758A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 0127375 A1 20010419; AT E260355 T1 20040315; DE 10046712 A1 20010419; DE 50005453 D1 20040401; EP 1220961 A1 20020710; EP 1220961 B1 20040225; ES 2214325 T3 20040916; TR 200200877 T2 20020621

DOCDB simple family (application)
EP 0009282 W 20000922; AT 00971282 T 20000922; DE 10046712 A 20000921; DE 50005453 T 20000922; EP 00971282 A 20000922; ES 00971282 T 20000922; TR 200200877 T 20000922