

Title (en)
HINGE TYPE AUTOMATIC DOOR CLOSER

Title (de)
AUTOMMISCHER TÜRSCHLIEFER VON SCHARNIERTYP

Title (fr)
FERME-PORTE AUTOMATIQUE DU TYPE A ARTICULATION

Publication
EP 1073821 A2 20010207 (EN)

Application
EP 99916054 A 19990423

Priority
• KR 9900194 W 19990423
• KR 19980014575 A 19980423
• KR 19980055489 A 19981216

Abstract (en)
[origin: WO9954583A2] A hinge type automatic door closer has a cylindrical housing mounted on a door via a door mounting plate, a hinge shaft mounted on a door frame via a door-frame mounting plate. The hinge shaft is inserted within the cylindrical housing. The door closer has a piston engaged around the hinge shaft movable vertically locked to the housing in its rotational movement. When the housing rotates, the piston is moved up and down depending upon a rotational direction of the housing.

IPC 1-7
E05F 1/12; **E05F 1/08**; **E05F 3/04**

IPC 8 full level
E05F 1/12 (2006.01); **E05D 5/00** (2006.01); **E05D 5/08** (2006.01); **E05D 5/10** (2006.01); **E05F 1/08** (2006.01); **E05F 3/04** (2006.01)

IPC 8 main group level
E05F (2006.01)

CPC (source: EP KR)
E05D 5/00 (2013.01 - KR); **E05F 1/1223** (2013.01 - EP); **E05F 3/10** (2013.01 - EP); **E05F 3/12** (2013.01 - EP); **E05F 3/20** (2013.01 - EP); **E05F 3/227** (2013.01 - EP); **E05Y 2201/696** (2013.01 - EP); **E05Y 2201/70** (2013.01 - EP); **E05Y 2201/702** (2013.01 - EP); **E05Y 2900/132** (2013.01 - EP)

Citation (search report)
See references of WO 9954583A2

Cited by
US9995076B1

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 9954583 A2 19991028; **WO 9954583 A3 20000803**; AU 3443599 A 19991108; BR 9909930 A 20010911; CN 1299433 A 20010613; EP 1073821 A2 20010207; ID 26709 A 20010201; JP 2002512331 A 20020423; KR 100263251 B1 20000801; KR 19990081808 A 19991115; TW 392032 B 20000601

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KR 9900194 W 19990423; AU 3443599 A 19990423; BR 9909930 A 19990423; CN 99805239 A 19990423; EP 99916054 A 19990423; ID 20002136 A 19990423; JP 2000544902 A 19990423; KR 19980055489 A 19981216; TW 88115500 A 19990908