

Title (en)
DOOR CLOSER

Title (de)
TÜRSCHLIESSER

Title (fr)
FERME-PORTE

Publication
EP 1042576 B2 20100728 (DE)

Application
EP 99924892 A 19990506

Priority
• DE 19834889 A 19980803
• DE 29822258 U 19981216
• EP 9903113 W 19990506

Abstract (en)
[origin: US6421876B1] A door closer with an oblong, one-piece body such to achieve a compact and aesthetic unit which can be produced with a minimum material consumption. The door closer has lateral faces which each have a curvature and/or bevel that shapes towards each other, which curvature or bevel starts at the lower surface and ends at the upper surface of the door closer. The door closer also has bearing blocks that are built between their fronts and the lateral faces ascending from the body's lower surface.

IPC 8 full level
E05F 3/00 (2006.01); **E05F 3/10** (2006.01); **E05F 3/22** (2006.01)

CPC (source: EP US)
E05F 3/00 (2013.01 - EP US); **E05F 3/10** (2013.01 - EP US); **E05F 3/22** (2013.01 - EP US); **E05F 3/227** (2013.01 - EP US);
E05F 3/102 (2013.01 - EP US); **E05Y 2900/132** (2013.01 - EP US)

Citation (opposition)
Opponent :
• DE 19529168 A1 19960215 - SCHLAGE LOCK CO [US]
• DE 1731001 U 19560927 - LANDERT MOTOREN AG [CH]
• DE 3202198 A1 19830804 - CASMA SPA [IT]

Cited by
US9995076B1

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

DOCDB simple family (publication)
US 6421876 B1 20020723; AR 023322 A1 20020904; AT E266139 T1 20040515; AU 4139599 A 20000228; AU 743753 B2 20020207; BG 104231 A 20000831; BG 63701 B1 20020930; BR 9906645 A 20000801; CA 2305214 A1 20000217; CA 2305214 C 20060627; CN 1114023 C 20030709; CN 1273620 A 20001115; CZ 20001054 A3 20010912; CZ 297506 B6 20070103; DE 59909399 D1 20040609; DK 1042576 T3 20040913; DK 1042576 T4 20110110; EP 1042576 A1 20001011; EP 1042576 B1 20040506; EP 1042576 B2 20100728; ES 2221386 T3 20041216; ES 2221386 T5 20101210; HK 1032092 A1 20010706; HU 223620 B1 20041028; HU P0003821 A2 20010328; HU P0003821 A3 20020228; JP 2002522671 A 20020723; JP 4523161 B2 20100811; NO 20001068 D0 20000302; NO 20001068 L 20000302; NO 320597 B1 20051227; NZ 503115 A 20010928; PL 190982 B1 20060228; PL 339576 A1 20001218; PT 1042576 E 20040930; RU 2211905 C2 20030910; SK 286172 B6 20080407; SK 4452000 A3 20001211; TR 200000495 T1 20001023; UY 25614 A1 19990927; WO 0008285 A1 20000217

DOCDB simple family (application)
US 54002600 A 20000331; AR P990103801 A 19990730; AT 99924892 T 19990506; AU 4139599 A 19990506; BG 10423100 A 20000309; BR 9906645 A 19990506; CA 2305214 A 19990506; CN 99801116 A 19990506; CZ 20001054 A 19990506; DE 59909399 T 19990506; DK 99924892 T 19990506; EP 9903113 W 19990506; EP 99924892 A 19990506; ES 99924892 T 19990506; HK 01102809 A 20010420; HU P0003821 A 19990506; JP 2000563899 A 19990506; NO 20001068 A 20000302; NZ 50311599 A 19990506; PL 33957699 A 19990506; PT 99924892 T 19990506; RU 2000102360 A 19990506; SK 4452000 A 19990506; TR 200000495 T 19990506; UY 25614 A 19990716