

Title (en)
DOOR CLOSER

Title (de)
TÜRSCHLIESSER

Title (fr)
FERME-PORTE

Publication
EP 1062401 B1 20060816 (DE)

Application
EP 99957338 A 19991206

Priority
• DE 19857297 A 19981214
• EP 9909538 W 19991206

Abstract (en)
[origin: DE19857297C1] The invention relates to a door closer of a most different type in which all parts thereof such as the housing (2), lifting cam disc (1) with a driving axle (3), damping piston (4), spring piston (6), etc up to the spring are made of plastic. The piece parts are made of a plastic, said plastic being reinforced with glass fiber or carbon fiber, in a non-cutting method, preferably in an injection molding method, and are automatically assembled without requiring additional subsequent processing.

IPC 8 full level
E05F 3/10 (2006.01)

CPC (source: EP US)
E05F 3/10 (2013.01 - EP US); **E05F 3/102** (2013.01 - EP US); **E05F 3/104** (2013.01 - EP US); **E05F 3/225** (2013.01 - EP US);
E05F 3/227 (2013.01 - EP US); **E05Y 2201/256** (2013.01 - EP US); **E05Y 2201/264** (2013.01 - EP US); **E05Y 2800/21** (2013.01 - EP US);
E05Y 2900/132 (2013.01 - EP US)

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)
US 6618899 B1 20030916; AT E336631 T1 20060915; BR 9907879 A 20001017; CA 2320809 A1 20000622; CN 1243901 C 20060301;
CN 1492963 A 20040428; DE 19857297 C1 20000706; DE 59913779 D1 20060928; EP 1062401 A2 20001227; EP 1062401 B1 20060816;
ES 2272085 T3 20070416; HK 1063066 A1 20041210; HU 224757 B1 20060130; HU P0101011 A2 20010730; HU P0101011 A3 20011228;
PL 346265 A1 20020128; WO 0036255 A2 20000622; WO 0036255 A3 20001012

DOCDB simple family (application)
US 63728200 A 20000811; AT 99957338 T 19991206; BR 9907879 A 19991206; CA 2320809 A 19991206; CN 99802942 A 19991206;
DE 19857297 A 19981214; DE 59913779 T 19991206; EP 9909538 W 19991206; EP 99957338 A 19991206; ES 99957338 T 19991206;
HK 04105884 A 20040809; HU P0101011 A 19991206; PL 34626599 A 19991206