

Title (en)
Elevator speed governor

Title (de)
Aufzugsgeschwindigkeitsregler

Title (fr)
Régulateur de vitesse pour ascenseur

Publication
EP 2402276 A1 20120104 (EN)

Application
EP 11180361 A 20040722

Priority
• EP 04770864 A 20040722
• JP 2004010400 W 20040722

Abstract (en)
An elevator speed governor, comprises : a base (14) installed within a hoistway (1); a pulley (13) rotatably supported by the base (14) and having a speed governor rope (12) looped around the pulley (13), for rotating in accordance with a raising/lowering speed of a car (2); a ratchet (26) provided with an engaging strip (27) for actuation, and capable of rotating around a pulley shaft (15) of the pulley (13); an engaging mechanism (30) having a pawl (28) , with which the pulley (13) is provided turnably between an actuation position for being engaged with the ratchet (26) and a release position for being disengaged from the ratchet (26), the pawl (28) being turned from the release position to the actuation position, and rotating the ratchet (26) in the same direction as the pulley (13) when a rotational speed of the pulley (13) has reached a set overspeed set in advance; an actuating lever (38) which is brought into abutment on the engaging strip (27) for actuation and displaced through movement of the engaging strip (27) for actuation resulting from rotation of the ratchet (26); and a rope holding mechanism (31) which is actuated through displacement of the actuating lever (38) resulting from abutment on the engaging strip (27) for actuation and brakes the speed governor rope (12) characterized in that the base (14) is provided with a groove portion (61) into which a part of the engaging strip (27) for actuation is inserted, the groove portion (61) extending in a direction so that the engaging strip (27) for actuation moves.

IPC 8 full level
B66B 5/04 (2006.01)

CPC (source: EP)
B66B 5/044 (2013.01)

Citation (applicant)
JP H08119555 A 19960514 - MITSUBISHI ELECTRIC CORP

Citation (search report)
• [XA] US 5653312 A 19970805 - KATO KUNIO [JP]
• [A] US 2262366 A 19411111 - MCCORMICK HAROLD V
• [A] JP 2002370879 A 20021224 - MITSUBISHI ELECTRIC CORP
• [A] JP 2002020056 A 20020123 - TOSHIBA ELEVATOR CO LTD, et al

Designated contracting state (EPC)
DE NL

DOCDB simple family (publication)
EP 1770044 A1 20070404; EP 1770044 A4 20111102; EP 1770044 B1 20150128; CN 100575233 C 20091230; CN 1894152 A 20070110; EP 2402276 A1 20120104; EP 2402276 B1 20130424; JP 4292205 B2 20090708; JP WO2006008813 A1 20080501; WO 2006008813 A1 20060126

DOCDB simple family (application)
EP 04770864 A 20040722; CN 200480037842 A 20040722; EP 11180361 A 20040722; JP 2004010400 W 20040722; JP 2006519229 A 20040722