

Title (en)
Door drive

Title (de)
Türantrieb

Title (fr)
Commande de porte

Publication
EP 1340877 B1 20160525 (DE)

Application
EP 03004486 A 20030228

Priority
• DE 10209268 A 20020301
• DE 10259925 A 20021220

Abstract (en)
[origin: EP1340877A2] The arrangement has at least one mechanical energy storage device (7,8) whose energy output is used to move the panel and is influenced by an electrically driven valve (20). Panel movement is detected by a sensor (22) whose output signal is fed to an input of a controller (24) that controls the valve so that the energy output from the storage device is dependent on panel movement.

IPC 8 full level
E05F 3/12 (2006.01); **E05F 3/10** (2006.01)

CPC (source: EP US)
E05F 3/102 (2013.01 - EP US); **E05F 3/12** (2013.01 - EP US); **E05F 3/223** (2013.01 - EP US); **E05F 15/42** (2015.01 - EP US); **E05F 5/12** (2013.01 - EP US); **E05F 15/41** (2015.01 - EP US); **E05F 15/71** (2015.01 - EP US); **E05F 2015/483** (2015.01 - EP US); **E05Y 2400/10** (2013.01 - EP); **E05Y 2400/20** (2013.01 - EP); **E05Y 2400/302** (2013.01 - EP US); **E05Y 2400/336** (2013.01 - EP US); **E05Y 2400/40** (2013.01 - EP US); **E05Y 2400/532** (2013.01 - EP US); **E05Y 2400/616** (2013.01 - EP US); **E05Y 2600/40** (2013.01 - EP US); **E05Y 2600/458** (2013.01 - EP US); **E05Y 2800/21** (2013.01 - EP US); **E05Y 2900/132** (2013.01 - EP US)

Citation (examination)
• DE 4231803 A1 19940324 - DORMA GMBH & CO KG [DE]
• DE 19650569 A1 19980618 - DORMA GMBH & CO KG [DE]

Citation (opposition)
Opponent : ASSA ABLOY Sicherheitstechnik GmbH
• DE 3823487 C2 19940616 - DORMA GMBH & CO KG [DE]
• EP 0137861 B1 19870325
• US 4040143 A 19770809 - LASIER THOMAS R, et al
• US 5913763 A 19990622 - BERAN MARK A [US], et al
• EP 0562153 A1 19930929 - THOMAS INDUSTRIES INC [US]

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EP2436863A3; EP4368803A1; FR2978477A1; EP2551434A3; DE202010000905U1; EP2716849A1; EP3461979A1; EP4116533A1; FR2978478A1; EP2551435A3; AU2011227577B2; CN107091034A; DE102018206576A1; IT201600081638A1; EP3543965A1; US11187022B1; DE102011008423A1; WO2018025105A1; EP2547854A1; EP3543965B1; EP2650461B1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT SE SI SK TR

DOCDB simple family (publication)
EP 1340877 A2 20030903; **EP 1340877 A3 20070822**; **EP 1340877 B1 20160525**; CA 2420748 A1 20030901; CA 2420748 C 20110628; CN 1291127 C 20061220; CN 1448608 A 20031015; US 2003213092 A1 20031120; US 7571515 B2 20090811

DOCDB simple family (application)
EP 03004486 A 20030228; CA 2420748 A 20030303; CN 03128533 A 20030228; US 37702703 A 20030303