

Title (en)

Door closer with reduced dimensions

Title (de)

Türschliesser mit kompakten Abmessungen

Title (fr)

Ferme-porte à dimensions réduites

Publication

EP 0972902 B1 20040728 (DE)

Application

EP 99105904 A 19990324

Priority

DE 19831393 A 19980714

Abstract (en)

[origin: EP0972902A1] A compact door closing spring has a mechanical spring (3) which is linked to the door pivot (1) by a flexible drive (6), e.g. a chain drive. A hydraulic damper (13) is fitted separate from the spring and is also linked to the flexible drive. The enables the whole system to be fitted into a compact, slim housing with only the hydraulic section having to have a reinforced wall. A compact layout has the hydraulic damper and the spring on opposite sides of the pivot axis and linked by the flexible drive.

IPC 1-7

E05F 3/10

IPC 8 full level

E05F 3/10 (2006.01); **E05F 1/10** (2006.01)

CPC (source: EP US)

E05F 3/106 (2013.01 - EP US); **E05F 3/10** (2013.01 - EP US); **E05Y 2201/656** (2013.01 - EP US); **E05Y 2900/132** (2013.01 - EP US); **Y10S 16/09** (2013.01 - US); **Y10S 16/17** (2013.01 - US); **Y10S 16/21** (2013.01 - US)

Cited by

EP2878751A1; US9995076B1

Designated contracting state (EPC)

CH FI FR GB IT LI SE

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EP 0972902 A1 20000119; **EP 0972902 B1 20040728**; DE 19831393 A1 20000120; DE 19831393 B4 20161208; US 6434788 B1 20020820

DOCDB simple family (application)

EP 99105904 A 19990324; DE 19831393 A 19980714; US 35296899 A 19990714