

Title (en)

Door lock assembly with detachable operating handle

Title (de)

Türschlossvorrichtung mit abnehmbarem Betätigungsgriff

Title (fr)

Dispositif de verrouillage de porte avec poignée d'actionnement démontable

Publication

EP 1076142 A1 20010214 (EN)

Application

EP 00306181 A 20000720

Priority

- JP 22892799 A 19990812
- JP 32736299 A 19991117

Abstract (en)

A door lock handle assembly is very hard to unlock unless its detachable operating handle (70) is used. In the assembly, an outer end portion of a rotating shaft (10) rotatably mounted in a fixed main body (2) of the assembly forms a spline shaft portion (12) in its outer end portion which is axially slidably engaged with an annular shutter member (40). The spline shaft portion (12) has axial grooves (11) the number of which is an odd number of 3 or 5. An annular cover member (50) for covering an outer peripheral surface of a flange portion of the shutter member (40) is fixedly mounted on the fixed main body (2). The shutter member (40) is resiliently urged toward an axially inner surface of the cover member (50). The operating handle (70) is capable of being engaged with and disengaged from both the spline shaft portion (12) and the annular shutter member (40). <IMAGE>

IPC 1-7

E05C 3/04; **E05B 35/00**; **E05B 17/18**

IPC 8 full level

E05B 3/00 (2006.01); **E05B 17/18** (2006.01); **E05B 35/00** (2006.01); **E05C 3/04** (2006.01); **E05B 15/00** (2006.01); **E05B 17/20** (2006.01)

CPC (source: EP)

E05B 17/18 (2013.01); **E05B 35/008** (2013.01); **E05C 3/042** (2013.01); **E05B 15/006** (2013.01); **E05B 17/2038** (2013.01)

Citation (applicant)

JP 2820660 B2 19981105

Citation (search report)

- [A] US 3907348 A 19750923 - BATES WAYNE C, et al
- [A] US 5412960 A 19950509 - JAMES BRENT A [US], et al

Cited by

CN107323483A; CN102741489A; CN111827797A; CN107605264A; EP2628875A1; EP2620572A3; CN103388424A; EP2458117A3; RU2749584C2; US9228374B2; WO2012019762A1; WO2020104821A3

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EP 1076142 A1 20010214; **EP 1076142 B1 20040414**; AT E264443 T1 20040415; DE 60009812 D1 20040519; DE 60009812 T2 20050414; HK 1037704 A1 20020215; JP 2001115691 A 20010424; JP 3291282 B2 20020610

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