

Title (en)

SELF-LOCKING THREADED CONNECTING DEVICE

Title (de)

SELBSTSCHLIESSENDE VERDRAHTETE VERBINDUNGSVORRICHTUNG

Title (fr)

DISPOSITIF DE RACCORDEMENT A FILETAGE AUTOBLOQUANT

Publication

**EP 0769108 A4 19980114 (EN)**

Application

**EP 95919779 A 19950505**

Priority

- US 9505820 W 19950505
- US 26953594 A 19940701
- US 37231895 A 19950113

Abstract (en)

[origin: WO9601379A1] A self-locking threaded connecting device comprising a male component (11) with a recess locking thread type (31) and a female component (12) with a flexible thread segment (21). Tension from the alignment of the internal flexible thread segment urges projections (22) of the flexible thread segment into the recesses (32) of the recess locking thread and thereby prevent the threaded fastener from loosening and coming apart in response to axial pressure optionally combined with vibration, expansion, contraction or other movement. The projections (22) and recesses (32) are shaped so that the faces glide by each other and unlock with the application of adequate torque. The two threads are designed to work together. The female component (12) when used with a standard male component (11) without recesses (32) provides resistance to inadvertent loosening.

IPC 1-7

**F16B 39/04**; **F16B 39/22**

IPC 8 full level

**F16B 39/28** (2006.01); **F16B 39/32** (2006.01)

CPC (source: EP)

**F16B 39/32** (2013.01)

Citation (search report)

- [XYY] US 2521257 A 19500905 - SAMPLE LILLIAN M
- [Y] US 4653968 A 19870331 - RAPATA GEORGE M [US], et al
- [Y] US 4168731 A 19790925 - TABER BENJAMIN C
- See references of WO 9601379A1

Designated contracting state (EPC)

CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)

**WO 9601379 A1 19960118**; AU 2546295 A 19960125; AU 689897 B2 19980409; BR 9508203 A 19971223; CA 2194164 A1 19960118; EP 0769108 A1 19970423; EP 0769108 A4 19980114; JP H10502435 A 19980303; TW 268081 B 19960111

DOCDB simple family (application)

**US 9505820 W 19950505**; AU 2546295 A 19950505; BR 9508203 A 19950505; CA 2194164 A 19950505; EP 95919779 A 19950505; JP 50386396 A 19950505; TW 84104583 A 19950509