

Title (en)

Tensioner having a hand lever pivotally mounted on a support block

Title (de)

Spanner mit einem auf einem Lagerblock schwenkbar gelagerten Handhebel

Title (fr)

Tendeur avec un levier à main monté pivotant sur un bloc de support

Publication

**EP 1413777 A3 20050316 (DE)**

Application

**EP 03022369 A 20031006**

Priority

DE 20216152 U 20021021

Abstract (en)

[origin: EP1413777A2] A tensioner for securing means has a pair of parallel tensioning arms pivot mounted in a mounting block and operated via a hand grip. A rod is fitted between the arms with a rotating fit and has a tension rod attached. Selected tension fittings are fitted to the free end of the tension rod. The arms are linked to the mounting block by two short pivot arms to provide mechanical advantage and to apply a controlled tension force.

IPC 1-7

**F16B 2/18**

IPC 8 full level

**B25B 5/12** (2006.01); **B25B 5/16** (2006.01)

CPC (source: EP)

**B25B 5/12** (2013.01); **B25B 5/163** (2013.01)

Citation (search report)

- [XY] DE 9108578 U1 19910912
- [Y] US 4218081 A 19800819 - JOHNSON NORMAN S [US]
- [X] US 4588216 A 19860513 - HINDS FARLEY T [US]

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 RO SE SI SK TR

DOCDB simple family (publication)

**DE 20216152 U1 20030206**; EP 1413777 A2 20040428; EP 1413777 A3 20050316

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**DE 20216152 U 20021021**; EP 03022369 A 20031006