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DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
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KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD,
ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO,
NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW,
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(54) Title: ROTATING SHELF-SUPPORTING DEVICE FOR REMOVABLY SUPPORTING FURNITURE SHELVES

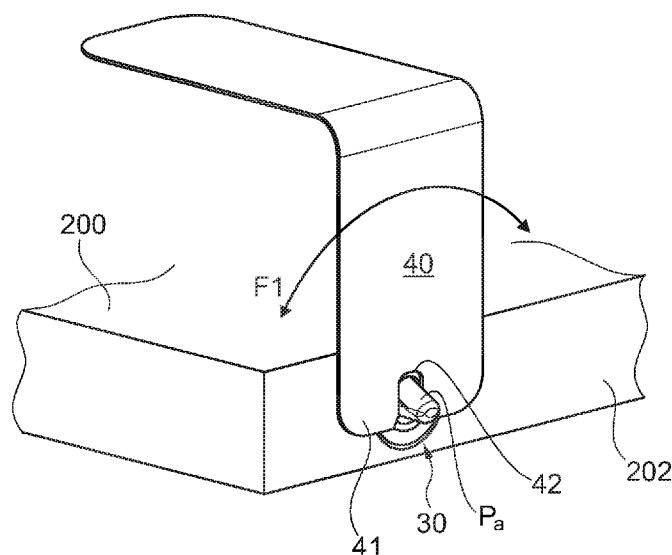


Fig. 5

(57) Abstract: The present invention relates to a shelf-supporting device (30) for the reversible connection of a shelf (200) to the opposite shoulders (300) of a piece of furniture, said device (30) being configured for being inserted inside a seat (201) formed within the thickness of said shelf (200) and comprising a main body (12) with which a pin (11) is slidingly associated, movable along a longitudinal axial direction (X) against the action of opposing means (M) between an advanced operating position wherein said pin (11) protrudes from said main body (12) and, when the device is assembled, from said shelf (200), so as to be able to be inserted into a housing seat (301) formed on one of said shoulders (300), and a retracted non-operating position wherein said pin (11) does not protrude from said main body (12) and from said shelf (200) when the device is assembled, or protrudes so as to be able to be in any case released from said housing seat (301) of said shoulder (300), wherein said pin (11) terminates with a free end or tip (P) comprising a tilted surface (Pa) suitable for cooperating with the entry edge of said seat (301), characterized in that it further comprises a bush (20) which can be fixedly inserted into said seat (201) formed within the thickness of said shelf (200), said main body (12) being in turn inserted into the axial cavity (22) of said bush (20) and being rotatable with respect to the same between a first operating position (A) which allows the coupling and uncoupling of the shelf (200) with respect to the shoulders (300) of the furniture, and a second blocking position (B)

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suitable for preventing the accidental disengagement of the shelf from the shoulders.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

INV. A47B57/20 F16B12/24 F16B12/26
ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

F16B A47B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 100 27 015 B4 (HEYER RALF [DE]) 18 October 2007 (2007-10-18) figures 1-6	1-11
A	IT 2019 0000 5830 A1 (CAR S R L [IT]) 16 October 2020 (2020-10-16) figures 1-3	1-11

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See patent family annex.

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE 10027015 B4	18-10-2007	DE 10027015 A1 DE 29922524 U1	12-07-2001 03-05-2001

IT 201900005830 A1	16-10-2020	EP 3955772 A1 WO 2020212838 A1	23-02-2022 22-10-2020
