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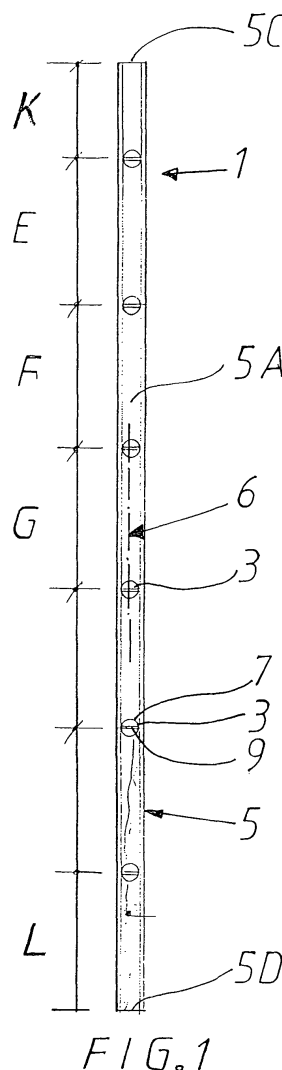
### (54) Arrangement for supporting objects

(57) The present invention relates to an arrangement (1) for supporting objects with the help of slotted holders (3) and bearers that are capable of detachable attachment to one another in pairs, which holders (3) are so arranged as to be secured to a panel (5).

In accordance with the invention, the aforementioned panel is formed by a number of studs (5), each of which exhibits a row of holes (7) distributed along the longitudinal extent of the respective stud on the front side (5A) of the stud.

Secured in the aforementioned holes (7) are holders (3) which, in a previously disclosed fashion, exhibit slot-shaped openings (9) extending across the stud (5) for accommodating matching attachment parts of the carrier.

Each stud (5) is connected to an attachment rail (11) extending along the rear side of the aforementioned stud (5). The aforementioned attachment rail (11) exhibits an attachment arrangement (12) for the attachment of the aforementioned panel studs (5) to the intended attachment points.



**EP 1 287 767 A2**

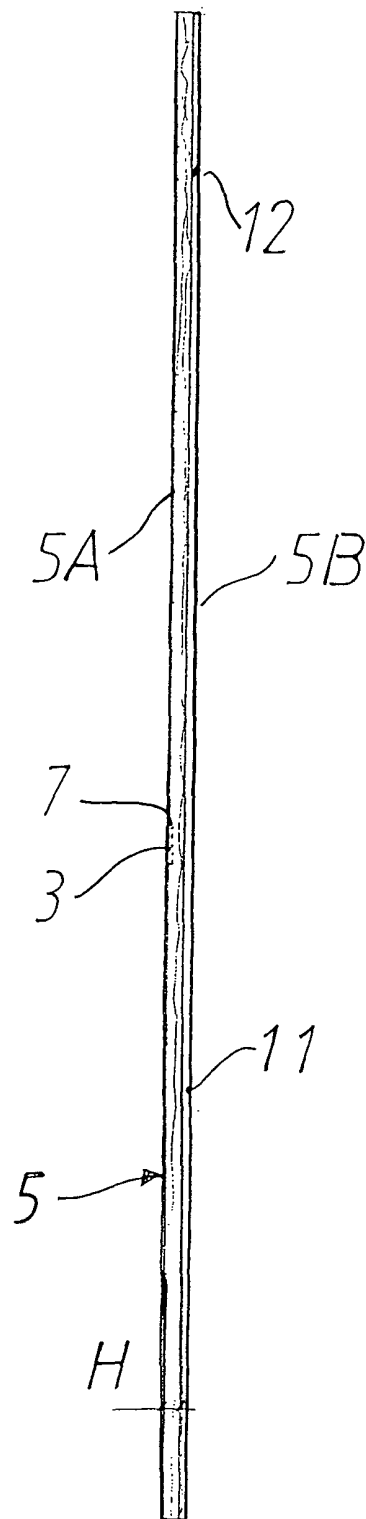


FIG. 2

## Description

**[0001]** The present invention relates to an arrangement for supporting objects with the help of slotted holders and bearers that are capable of detachable attachment to one another in pairs, which holders are so arranged as to be secured to a panel.

**[0002]** Previously disclosed through SE-512 387-C2, in respect of holders intended for supporting objects, is the principle of causing the aforementioned holders to be supported at a mutual distance from one another distributed both vertically and laterally for the purpose, with the help of slot-shaped accommodating openings in the holders, of enabling the introduction of the attachment part of the carrier for the objects in question that it is wished to display, for example in shops and in other places where the display of products is desired. The holders in this case are attached to and/or in large panels in the form of sheets with specific centre distances C between the holders.

**[0003]** It is necessary in this case to cause the aforementioned panels to be attached to the walls and/or along aisles in the shop. This means that it is not easy to combine them with other holders in the form of wall rails, where, as previously disclosed, it is easy to vary the centre distances between the carriers simply by moving the bearers laterally.

**[0004]** It is also desirable to achieve simple securing of the carriers directly to the parts which support the carriers. There is also a requirement to be able to install carriers on proper timber studwork.

**[0005]** The principal object of the present invention is thus to make available an arrangement of the aforementioned kind, in which the aforementioned problems are solved simply and effectively.

**[0006]** The aforementioned object is achieved by means of an arrangement in accordance with the present invention, which is characterized essentially in that the aforementioned panel is formed by a number of studs, each of which exhibits a row of holes distributed along the longitudinal extent of the respective stud on the front side of the stud, in that secured in the aforementioned holes are holders which, in a previously disclosed fashion, exhibit slot-shaped openings extending across the stud to accommodate matching attachment parts of the carrier, in that each stud is connected to an attachment rail extending along the rear side of the aforementioned stud, and in that the aforementioned attachment rail exhibits an attachment arrangement for the attachment of the aforementioned panel studs to the intended attachment points.

**[0007]** The invention is described below as a number of preferred illustrative embodiments, in conjunction with which reference is made to the accompanying drawings, in which:

Fig. 1 shows a front view of a stud with holders distributed along its length;

Fig. 2 shows the stud viewed from the side;

Fig. 3 shows a holder installed on a stud;

Fig. 4 shows the upper end of an attachment rail and its support on a horizontally angled wall rail;

Fig. 5 shows a part of the stud with a hole for a holder;

Fig. 6 shows a sectioned view of a stud and an attachment rail screwed to it;

Fig. 7 shows an example of the application of the invention to other attachment panels;

Fig. 8 shows a perspective view of a holder viewed at an angle from the front;

Fig. 9 shows a sectioned view of a further example of a holder and its attachment device; and

Fig. 10 shows a view from below of an attachment device shown in Fig. 9.

**[0008]** An arrangement 1 in accordance with the present invention, which is arranged for the support of objects 2 of various kinds with the help of slotted holders 3 and carriers 4 that are capable of detachable attachment to one another in pairs, which holders 3 are so arranged as to be attached to a panel 5, 5<sup>1</sup>, 5<sup>2</sup>, exhibits a narrow, elongated panel 5. More specifically, the aforementioned panel is in the form of a number of studs 5, each of which exhibits a row 6 with a number of holes 7 that are uniformly distributed along the front side 5A of each stud, which can exhibit a routed pattern 8. Attached in the aforementioned matching holes 7 are holders 3, which in a previously disclosed fashion exhibit slot-shaped accommodating openings extending across the stud 5 in the aforementioned accommodating openings 9 and so arranged as to accommodate the matching rear attachment parts 10 of carriers 4 that are capable of insertion therein. Each stud 5 is connected to an attachment rail 11 extending along the rear side 5B of the aforementioned stud, which in turn exhibits an attachment arrangement 12 that is arranged for attachment of the aforementioned panel studs 5 at intended desired attachment points I, for example extending vertically along a wall 13.

**[0009]** Illustrated in Fig. 4 is an example of a slot-shaped attachment arrangement 12 intended in a previously disclosed fashion to be hooked onto a horizontal carrier rail 14.

**[0010]** The aforementioned studs 5 are made essentially of surface-treated timber with circular holes 7 arranged in rows and above one another viewed with the studs 5 held vertically as shown in Fig. 7.

**[0011]** The attachment rail 11 essentially exhibits a U-shaped cross-sectional profile with its base part 11A facing in a direction towards the stud 5 close up to it and attached to the aforementioned stud 5, for example with screws, adhesive, etc.

**[0012]** The aforementioned holders 3 are so arranged as to be attached either directly to the attachment rail 11 or directly to the stud 5. It is possible to use screws or other attachment means for this purpose.

[0013] In accordance with a further embodiment of holders 103, as illustrated in Figs. 9 and 10, these exhibit a number of annular barbs 150 on their cylinder-shaped outside 151 at the insertion end 154 of the essentially circular insertion part 152 of the holder 103. The form is essentially circular because it is easy to drill suitable holes for the holders 103 in the intended stud and to cause the attachment-adapted insertion part 152 of the holders to be pressed and/or tapped in place at the opposite end 153 of the holders 103 where the aforementioned slot-shaped accommodating openings 109 are situated. The barbs 150 are conical with a reduced cross-sectional profile in the direction of insertion 155 of the holders. The holders 103 are thus pushed in by hand into a matching hole at the intended point of attachment in the stud, or they are tapped in place using a hammer.

[0014] The aforementioned holders 3; 103 consist of a metallic or plastic material and are easy to machine in large series.

[0015] The holders 3 are attached at a mutual distance K, L, F, G, ... from one another and from the ends 5C, 5D of the stud in question and to an intended depth H. The aforementioned studs 5 with a holder 3 and an attachment rail 11 can be suspended and, if required, screwed to a wall 13 at desired distances from one another viewed from the side. The length of the studs 5 can also be varied. Such a simple, reliable and effective supporting arrangement can be obtained thanks to the invention, which can also be applied to other supporting systems, such as grooved panels.

[0016] The invention is naturally not restricted to the embodiments described above and illustrated in the accompanying drawings. Modifications are possible, especially with regard to the nature of the various components, without departing from the area of protection afforded to the invention, as defined in the Patent Claims.

## Claims

1. Arrangement (1) for supporting objects (2) with the help of slotted holders (3) and bearers (4) that are capable of detachable attachment to one another in pairs, which holders (3) are so arranged as to be secured to a panel (5, 5<sup>1</sup>, 5<sup>2</sup>), **characterized in that** the aforementioned panel (5) is formed by a number of studs (5), each of which exhibits a row (6) of holes (7) distributed along the longitudinal extent of the respective stud on the front side (5A) of the stud, **in that** secured in the aforementioned holes (7) are holders (3) which, in a previously disclosed fashion, exhibit slot-shaped openings (9) extending across the stud (5) for accommodating matching attachment parts (10) of the carrier (4), **in that** each stud (5) is connected to an attachment rail (11) extending along the rear side (5B) of the aforementioned stud (5), and **in that** the aforementioned attachment rail (11) exhibits an attachment arrangement (12) for the attachment of the aforementioned panel studs (5) to the intended attachment points (I).
2. Arrangement in accordance with Patent Claim 1, **characterized in that** the studs (5) are made essentially of timber with circular holes (7) arranged above one another viewed with the studs (5) held vertically.
3. Arrangement in accordance with Patent Claims 2-3, **characterized in that** the attachment rail (11) exhibits a U-shaped cross-sectional profile with its base part (11A) facing towards (15) and attached to the stud (5).
4. Arrangement in accordance with one or other of Patent Claims 1-3, **characterized in that** a number of holes (7) are arranged in a row (6).
5. Arrangement in accordance with one or other of Patent Claims 1-4, **characterized in that** the holders (3) are capable of being screwed to the attachment rail (11).
6. Arrangement in accordance with one or other of Patent Claims 1-4, **characterized in that** the holders (3) are so arranged as to be attached to the stud (5).
7. Arrangement in accordance with Patent Claim 6, **characterized in that** the holders (3) are so arranged as to be secured by means of screws.
8. Arrangement in accordance with Patent Claim 6, **characterized in that** the holders (103) exhibit a number of annular barbs (150) on the outside (151) of their circular insertion part (152) at the opposite end (153) of the holders (103) where the aforementioned slot-shaped accommodating openings (109) are arranged.
9. Arrangement in accordance with Patent Claim 8, **characterized in that** the barbs (150) are conical with a reduced cross-sectional profile in the direction of insertion (155) of the holders.
10. Arrangement in accordance with one or other of the foregoing Patent Claims, **characterized in that** the holders (3; 103) consist of a metallic or plastic material.

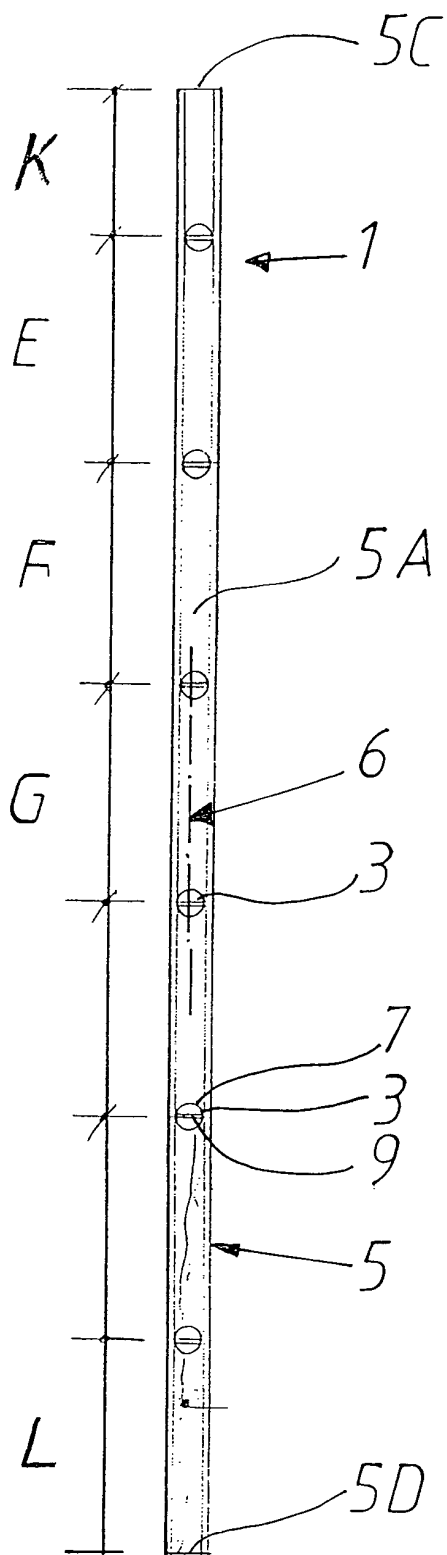


FIG. 1

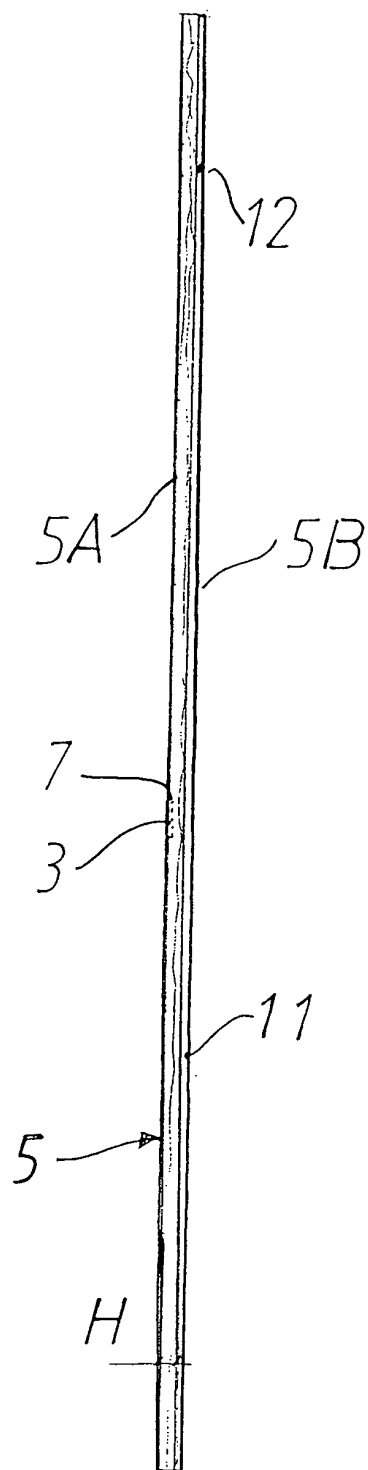


FIG. 2

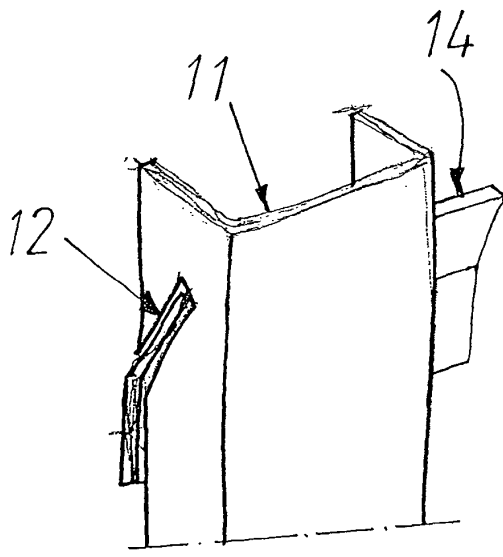


FIG. 4

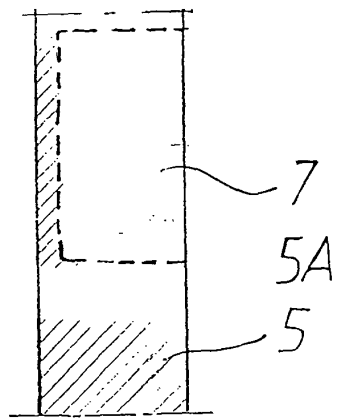


FIG. 5

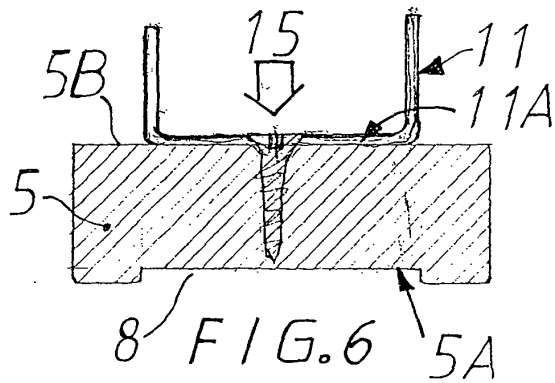


FIG. 6

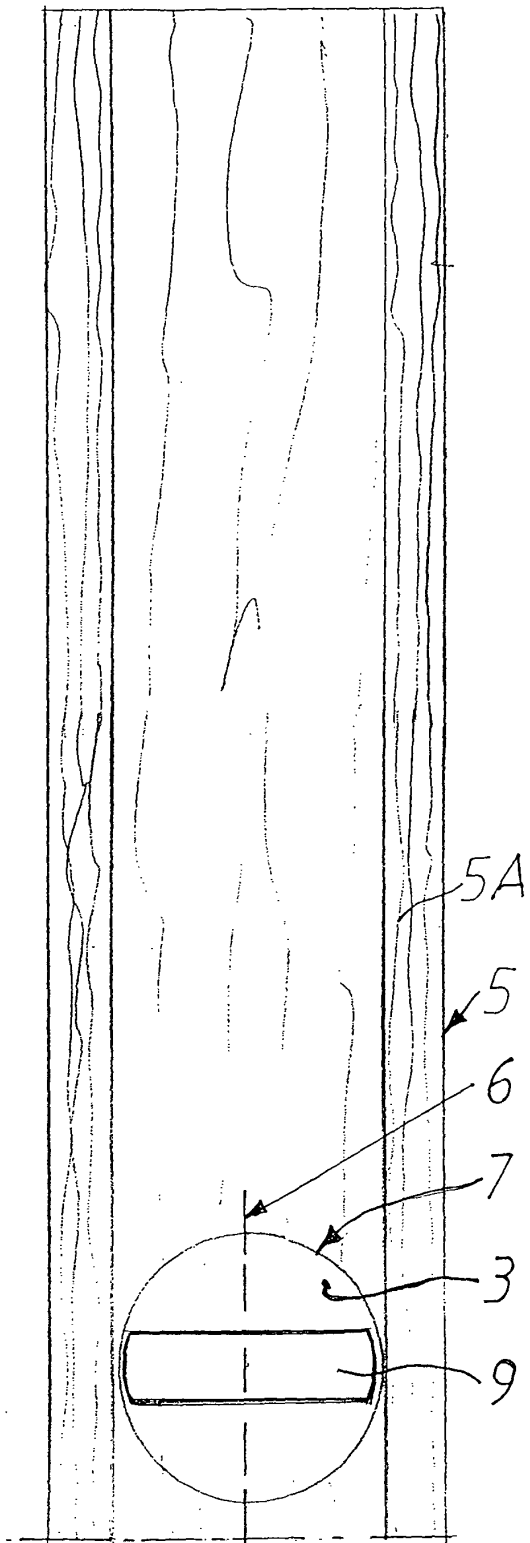


FIG. 3

