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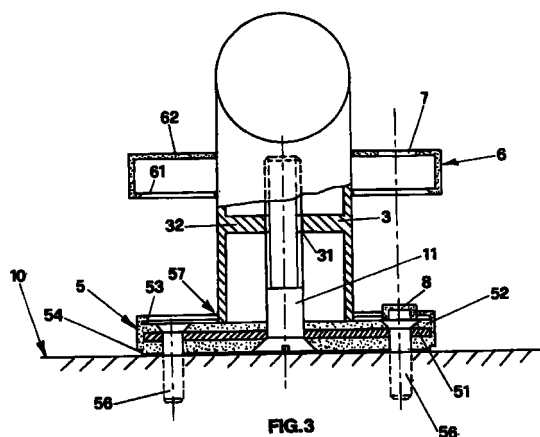
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(54) **Covering element for fastening disk of handles**

(57) Cover element for handle fixing roses, each rose consisting of a disk (5) having a central hole for the passage of a screw (11) suited to connect said disk to one end of said handle (1) and having a series of holes (55) whose centres are distributed around a circumference (C) of said disk, said holes receiving screws (56) for anchoring said handle to a wall. Said element consists of a cover (6, 9) swivel connected to the end of the handle, said cover having a ring-shaped hole (7) with its centre set substantially along the circumference (C) of said disk where there is said series of holes, said hole having a diameter that is at least the same as the head of the screws that are tightened onto said holes.



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Description

[0001] The invention concerns a special cover to place over handle fixing roses that allows to screw the rose to the wall where the handle is mounted without having to move away the cover.

[0002] It is known that handles, above all those that function as gripping and supporting elements in particular cases such as, for example, to aid in lifting or supporting invalids, have an element or rose to mount on the wall that must have very effective hold and gripping characteristics, this is naturally because it is by no way acceptable that the rose should come away from the wall it is mounted on by simply grasping the handle. For this reason the roses that mount the handle to the wall are fitted with at least three holes which hold as many medium sized screws such that they can ensure a very high tug resistance. A consequence to all this is that it is very important that the screws are fixed in an optimum manner and without impediment.

[0003] Since all the handles are fitted with covers concealing the roses, currently the screws are fixed by lifting the cover from its seat on the rose until the cover is made to slide towards the centre of the handle so that any drilling work on the wall and subsequent tightening of the screws in the holes of the roses can be carried out without interference and in the most sound manner possible and in other words in a perpendicular direction to the surface of the rose and of the mount. Sometimes, above all because of the shape of the handle, the cover cannot be moved away towards the centre of the handle and thereby taken out of the work area of the drill or screwer so the screws that are applied are not set in the most appropriate manner possible, in other words they are not perpendicular to the wall, but at an angle. As a consequence even the grip of the screws can be lessened.

[0004] The scope of this invention is to overcome the limitations of current techniques described above.

[0005] A particular scope of the invention is to aid the drilling and screwing operations for the screws fixing the rose without having to distance the covers so that the drilling and screwing operations can be carried out regardless of the shape of the handle being mounted.

[0006] Another scope of the invention is to make the drilling and screwing operations as easy as possible.

[0007] Last but not least, a scope is to produce a cover that, even though it has the aforementioned characteristics, can also have a pleasant appearance.

[0008] All the aforementioned scopes and others that will be better explained later are achieved by the cover element for handle fixing roses where each rose consists of a disk having a central hole for the passage of a screw suited to connect said disk to one end of said handle and having a series of holes whose centres are distributed around a circumference of said disk, said holes receiving screws for anchoring said handle to a wall where said element, in accordance with the con-

tents of the first claim, is characterised in that it consists of a cover swivel connected to the end of the handle and resting over the rose, said cover having a ring-shaped hole with its centre set substantially along the circumference of the disk where there is said series of holes, said hole having a diameter that is at least the same as the head of the screws that are tightened onto said holes.

[0009] According to a preferred form of execution of the invention, on the same circumference as the series of holes of the rose and halfway between two holes there is a button protruding from the surface of the rose that couples into the hole in the cover in such a way that when the fixing operation is complete no holes can be seen on the cover but only a disk rising from the surface of the cover.

[0010] Additional characteristics and details of the invention shall be better illustrated in the description that follows, given as a guideline but not a limitation and made with the aid of the attached diagrams where:

- fig. 1 shows the handle with the cover element invention;
- fig. 2 shows the cover element invention applied to the rose;
- fig. 3 is a section of the handle made along the central axis of the rose with a form of execution of the cover element invention;
- fig. 4 shows a section of the handle with a variant in execution of the cover with respect to fig. 3.

[0011] With reference to fig. 1 the handle, indicated by 1, including the roses and the covers for mounting on the wall. The handle 1 has the gripping element 2 and two fixtures 3 and 4 each being connected, in a basically perpendicular manner, to a rose 5. This rose, as can be seen in fig. 2 and also in section in fig.'s 3 and 4, consists of a galvanised steel disk 51 encased by thermoplastic moulding in a nylon disk 52 that has a circular undercut rim 53 on the side of the surface that faces the handle and another rim 54 on the opposite side of the surface and in other words on the rose's surface touching the wall where the rose 5 has to be connected. The rose 5 is fastened to the handle 1 by means of a screw 11 that is screwed into a hole 31 made in a diaphragm 32 on the inside of one side of the handle. The screw 11 thereby locks the rose 5 and handle 1 together. The rose 5 also has a series of holes 55 whose centres are distributed around a circumference C.

[0012] As can be seen in fig. 3 according to a special execution of the cover element invention, the cover 6 having a basically C shaped section and a hole 7, is mounted on the rose 5 and turned so that the hole 7 is aligned with one of the holes 55. In fact the hole 7 is made so that its centre is on an upright of the rose 5 makes a passage through to one of the points on the circumference C.

[0013] Since the hole 7 has the same or larger diameter as the head of the screws 56 that anchor the

rose 5 to the wall 10, by aligning the hole 7 with a hole 55 first the wall 10 can be eventually drilled and then the screws 56 be screwed in. All this without, as said, having to distance the cover 6 from contact with the rose 5. In fig. 3 the cover 6 is only lifted for illustrative purposes. In reality during the aforementioned operations and in other words before eventually drilling the wall and screwing the screws 56, the cover 6 will be mounted on the rose 5 without the rim 61 resting on the undercut 54 even because the button 8 also having a circular form and with its centre also on circumference C, as illustrated in fig. 2, prevents rim 61 from engaging with undercut 54 until said button 8 has not entered hole 7 of the cover 6. In fact the height of the button 8 is the same as the height of the surface 62 of the cover 6 when said cover 6 is clipped onto its stop check 54. So until the hole 7 is not turned until it finds the button 8 and receives it, the button 8 does not allow the cover 6 to be clipped into its closed position.

[0014] According to a variant in execution of the invention the cover, now indicated by 9, is flattened in shape and underneath has a lipped circular rim, as indicated by 91, that clips into the corresponding cavity 53 made on the outside surface that faces the handle. Even in this case the button 8 does not allow the lipped rim 91 to clip into the cavity 53 until the hole 7 has not been aligned with its corresponding button 8. The drilling and screwing operations will nevertheless be carried out with the cover 9 set over the rose 5 so that the hole 7 can be first set over the holes 55 and then, after having tightened the screws 56, can receive the button 8.

[0015] It is clear that in this way the scopes of the invention are achieved, since a cover is produced that first acts as a drilling and screwing template and then as a genuine cover, hiding the screws that hold the rose to the wall 10.

[0016] With regards to the manufacture of the rose that in the examples has been indicated as being made of two materials and in other words nylon in section 52 and galvanised steel in section 51 encased in section 52 by means of moulding, said rose may be made differently, for example completely swaged in steel, otherwise produced completely in high-tensile plastic, for example nylon reinforced with glass fibre, or other materials.

Claims

1. Cover element for handle fixing roses, each rose consisting of a disk (5) having a central hole for the passage of a screw (11) suited to connect said disk to one end of said handle (1) and having a series of holes (55) whose centres are distributed along a circumference (C) of said disk, said holes receiving screws (56) for anchoring said handle to a wall, **characterised in that** it consists of a cover (6, 9) swivel linked to the end of the handle, said cover having a ring-shaped hole (7) with its centre set basically in line with the circumference (C) of said

disk where there is said series of holes, said hole having a diameter at least equal to that of the head of the screws that are screwed into said holes.

2. Cover element according to claim 1) characterised in that said ring-shaped hole (7) receives a button (8) basically circular and substantially equal in diameter, fastened to the rose (5) and with its centre set along the circumference (C) where the centres of said holes are distributed, the coupling between said hole (7) and said button (8) being achieved by fitting said cover element onto said rose when said cover (6, 9) clips onto said rose.
3. Cover element according to claim 1) or 2) characterised in that said cover (6) has a circular form with a basically C-shaped section having a ring-shaped undercut rim (61) that fits onto a corresponding circular seat (54) made to undercut on the rim of the surface of the rose (5) that sits against the wall (10).
4. Cover element according to claim 1) or 2) characterised in that said cover (9) has a basically flat form with a surface (90) having a circular protruding rim (91), said rim clips onto a corresponding circular cavity (53) on the front face of said rose.
5. Cover element according to any one of claims 2) to 4) characterised in that said button (8) is sufficiently high to remain substantially at the same level of the surface of the cover (6, 9) when said cover is connected to the rose.

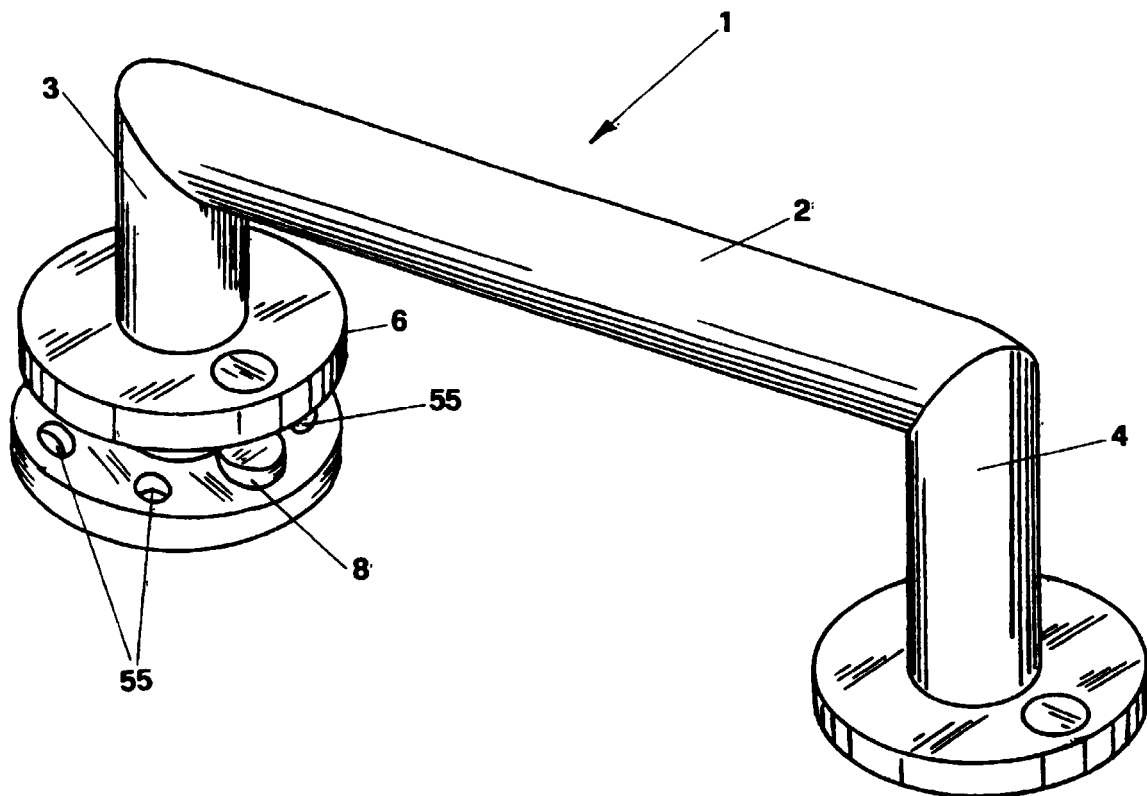


FIG.1

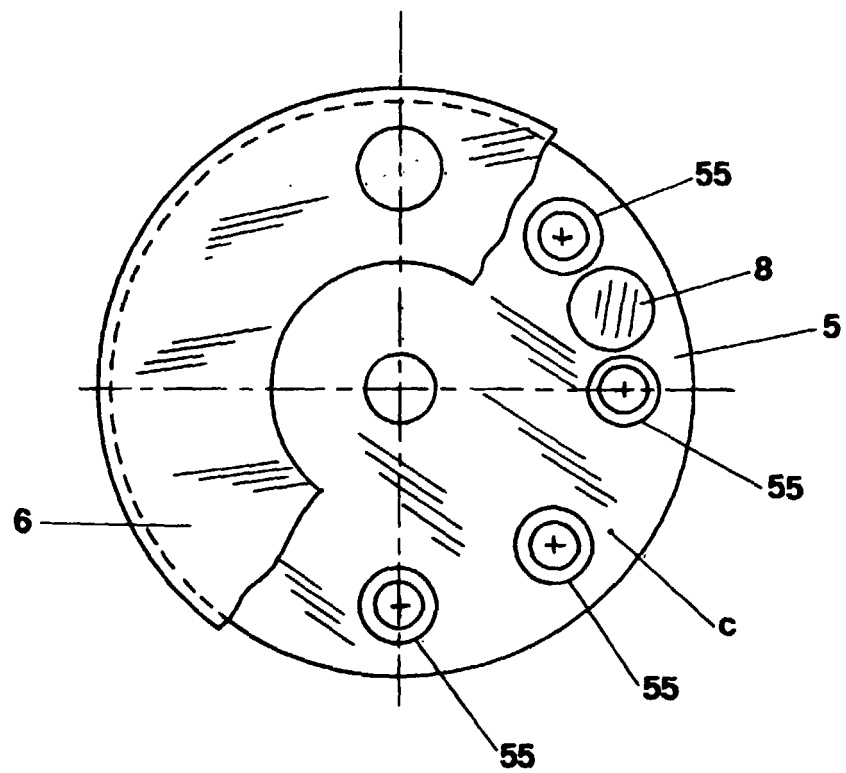


FIG.2

