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(56) Documents Cited:
WO 2008/003977 A1 US 5762387 A
US 5513505 A US 4236396 A
US 3107113 A US 20070101777 A

(58) Field of Search:
INT CL E05B
Other: EPODOC, WPI

(54) Abstract Title: **Retrofitting / replacement door handle and faceplate assembly**

(57) A retrofittable door handle and face plate assembly has a pair of handles 9, 14, an associated pair of face plates 1 and 4 and a pair of fixing plates 2 and 3. The assembly is intended for replacing an original assembly. The new assembly locates upon mounting holes that already exist in said door. Said fixing plates are located via screws passing locating in holes 5A, 5B, 5C via the use of screw housings 7A, 7B, 7C. Face plates 1 and 4 are located onto said fixing plates by screws 11A, 11B, 11C. One face plate and one fixing plate are located on both sides of said doors. The door handles are locked in position via a threaded ring 13.

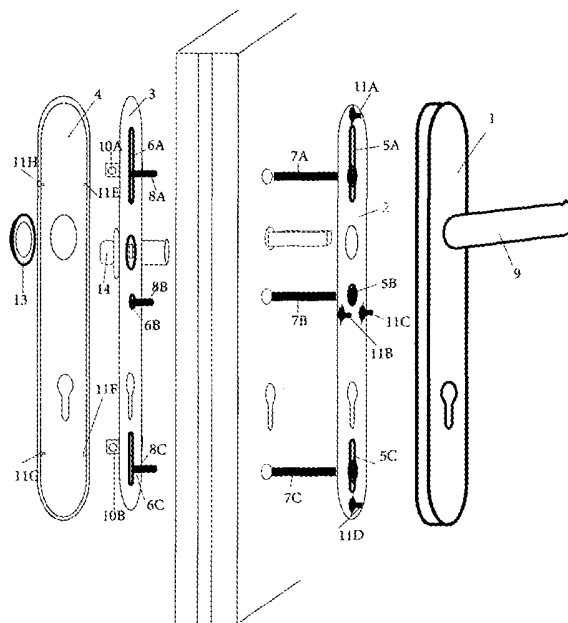


Figure. 1



Figure. 1

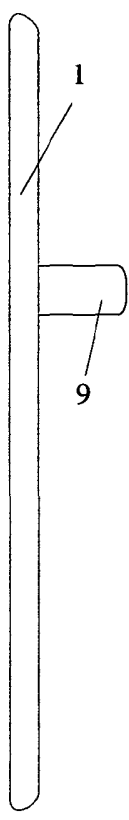


Figure.2

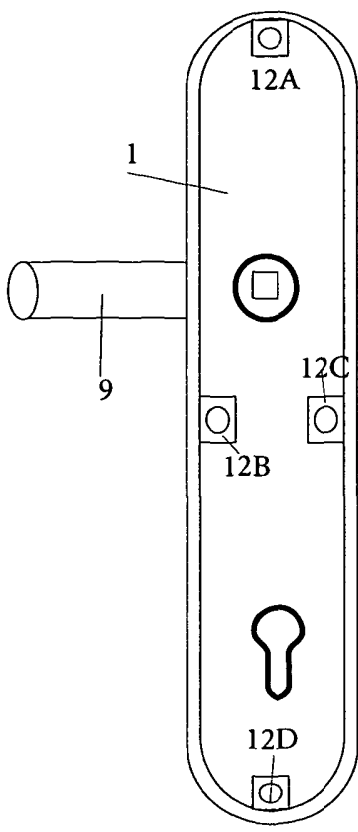


Figure.3

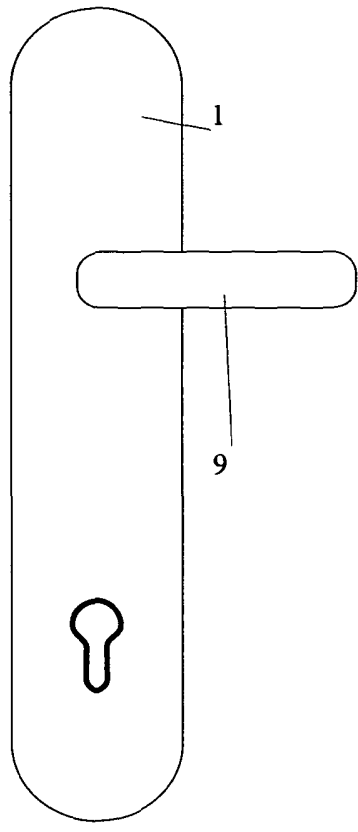


Figure.4

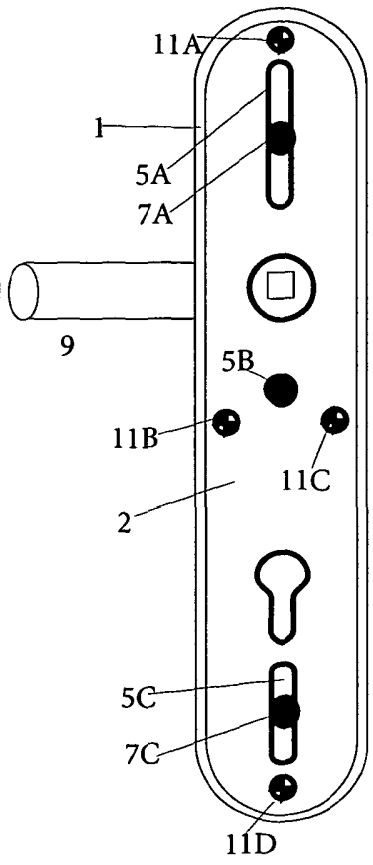


Figure.5

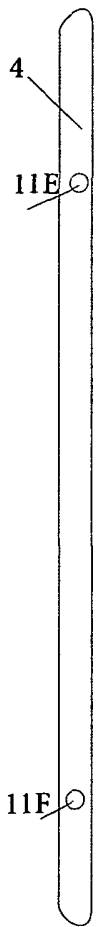


Figure 6

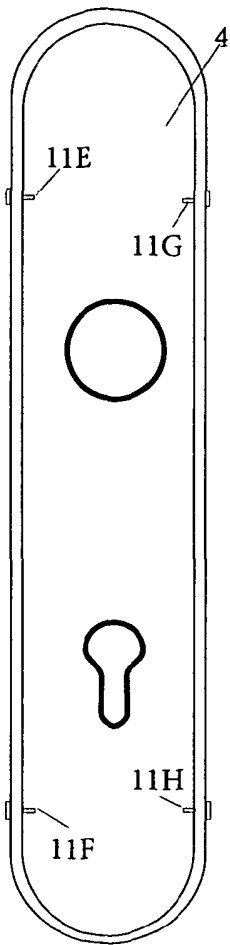


Figure 7

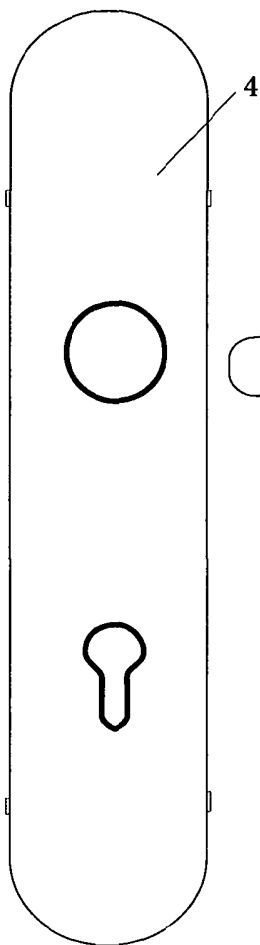


Figure 8

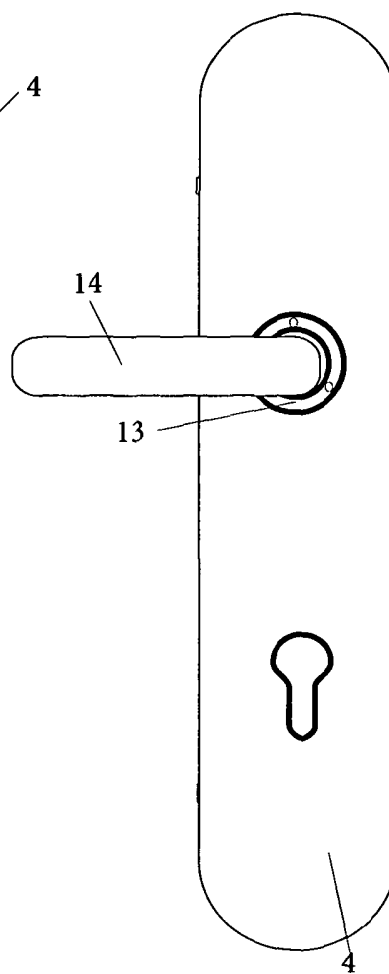


Figure 9

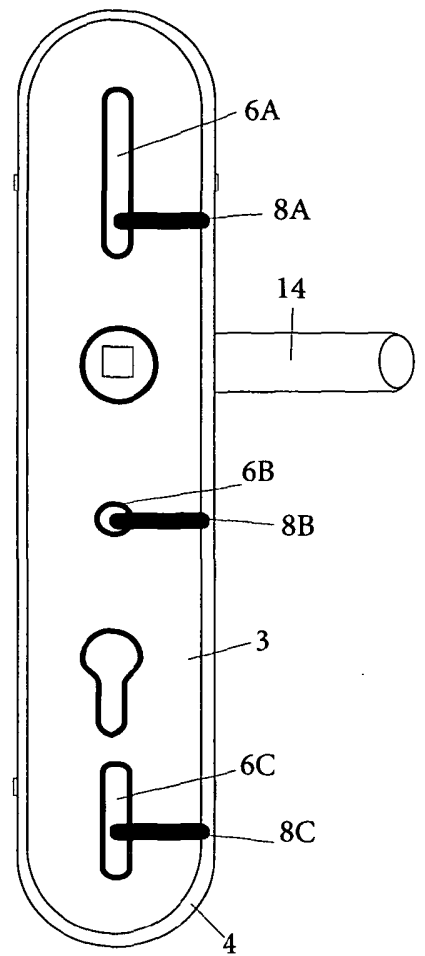
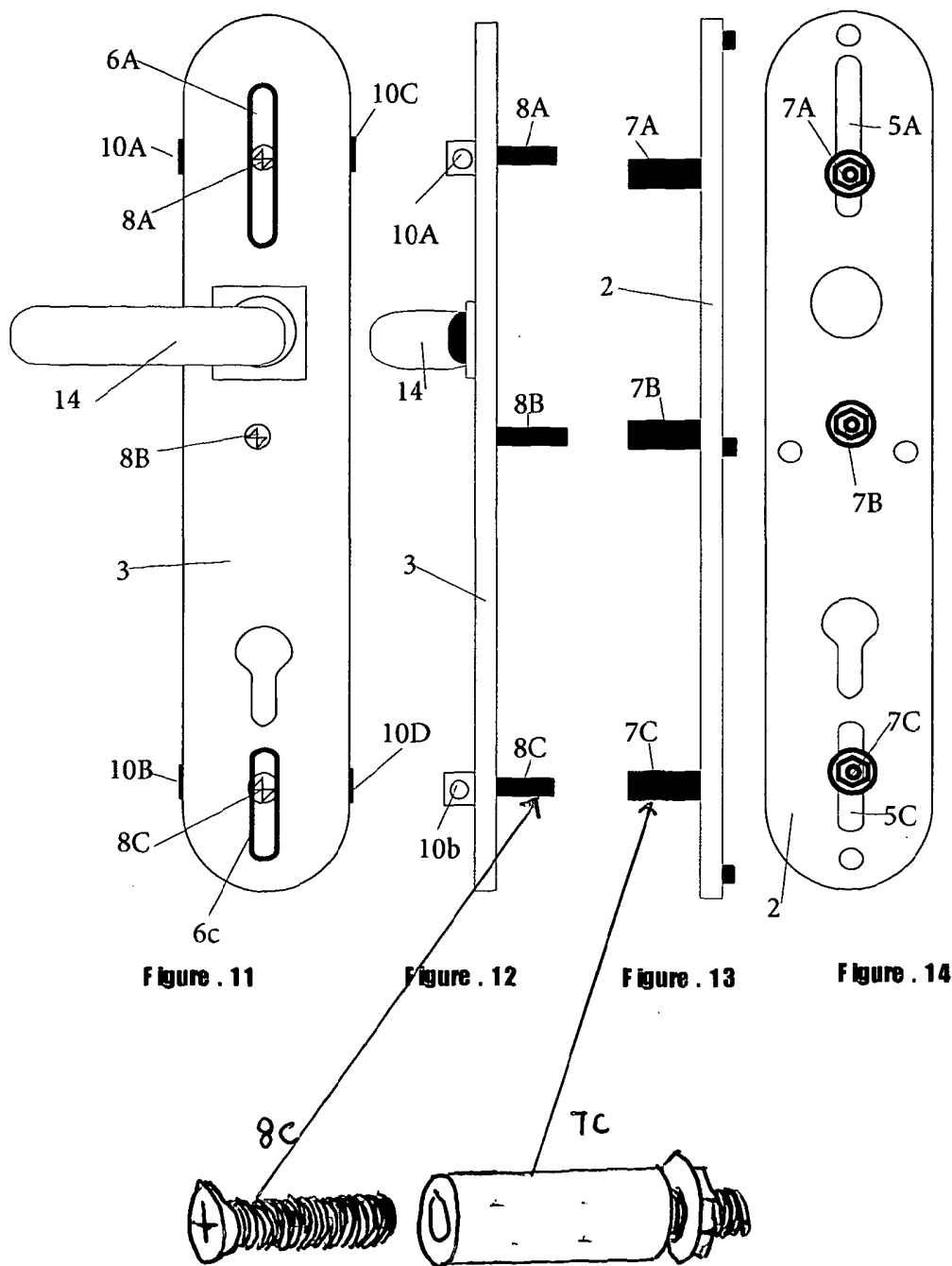


Figure 10



Universal multipoint lock door handle

This invention relates to a device that can replace an existing old or broken multipoint lock door handle without the hassle of looking for a particular brand or make that fits the existing door. Finding a replacement multipoint lock for uPVC or wooden door handles has always been a tough task - there are so many different sizes and trying to adapt the wrong handle is near impossible. Calling out a window or door specialist to assess and find a handle with an exact fit will take some time as it requires ordering and transporting before the replacement arrives and is fitted.

With this universal multipoint lock door handle, it will fit most of the existing uPVC/ wooden doors without drilling anymore holes.

The invention will now be described solely by way of the universal multipoint lock door handle to demonstrate how it operates and with reference to the accompanying drawings-

Figure (1) shows the view of the multipoint lock door handles fitted into the door. Figures (2-4) show the deviation view of the front part of the multipoint lock door handle.

Figure (5) shows the back view of the front part of the multipoint lock door handle with the inner plate.

Figures (6 - 8) show the different deviation view of the back part of the multipoint lock door handle.

Figures (9 - 10) show the different deviation view of the back part of the multipoint lock door handle with the back inner plate.

Figures (11-12) show the deviation view of the inner back plate.

Figures (13-14) show the deviation view of the inner front plate

In figures, a multipoint lock door handle, Front handle (1) and Back handle (4) also includes two inner plates. These are the inner front plate (2) and inner back plate (3). On the inner front plate there are Pre-drilled holes (5A, 5B and 5C) for screw housings (7A, 7B and 7C). The inner back plate with Pre-drilled holes (6A, 6B and 6C) for screws (8A, 8B & 8C) and screwing fixing holes (10A, B, C and D). The front handle (9) and back handle (14), the small screws (11A, B, C, D, E, F, G and H) and ring nut (13) to secure the back handle. The screw housings (12 A, B, C & D) are used to secure the front inner plate to the front handle.

To replace the old/ damaged multipoint lock door handle, place the inner front plate (2) onto the front door and ensure the existing holes are lined up with pre-drilled holes (5A,B &C). Insert the screw housings (7A, B & C) onto the pre-drilled holes (5A, B &C) and secure them with the washer and nuts. Then use screws (11A, B, C & D) to secure the front plate onto the screw housings (12A, B,C &D) inside the front door handle (1). Push the screw housings (7A, B &C) into the existing holes on the door and place the back inner plate (3) onto the other side of the door. Insert screws (8A, B & C) through the pre-drilled holes (6A, B& C) into the Screw housing (7A,B &C) and tightened the screws. Place the Back door handle (4) on top of the inner back plate and use screws (11E, F, G &H) to secure them to the screw fixing holes (10A, B, C &D). Finally, put the ring nut (13) through the back handle and tighten the nut to secure the back handle.

Claims

- 1 A universal multipoint lock door handles that fits to a new or existing UPVC /wooden door with the rollers/latches/hooks (multi-points locking system) mortise. It reduces the time spent searching for a particular brand name/ manufacturer that fits to the existing door. No special tools are needed to replace the door lock handle and it is uncomplicated. Also it saves calling an uPVC door specialist or even in some cases replacing the whole door.
- 2 A universal multipoint lock door handles according to claim 1, with flexible pre-drilled holes and screw housings at the inner front and back plate. This improves on the conventional design of having a fixed screw housing provided by other manufacturers.
- 3 A universal multipoint lock door handles according to claim 1 that provides greater security by using three screws unlike the conventional door handle that uses just two screw fixings.
- 4 A universal multipoint lock door handles according to claim 1, which uses 4/6 small screws to secure the inner front plate (depend to the length of the door handle) into the front door handle.
- 5 A universal multipoint lock door handles according to claim 1, in which unlike the conventional door handle, is secured onto the inner back plate,
- 6 A universal multipoint lock door handle according to claim 1, that is designed with a back cover that can be secured with 4 small screw and a ring nut through the handle.

Application No: GB0809005.2

Examiner: Gareth Jones

Claims searched: 1 - 6

Date of search: 21 August 2008

Patents Act 1977: Search Report under Section 17

Documents considered to be relevant:

Category	Relevant to claims	Identity of document and passage or figure of particular relevance
X	1 - 6	US 3107113 A (SCONZO) See whole document especially figures and column 1 lines 10-40.
X	1 - 6	US 5762387 A (EDGERLY et al) See all figures and column 1 lines 1- 30.
X	1 - 6	US 2007/0101777 A (SHEN) See whole document especially figures and paras (0019-0021).
X	1 - 6	WO 2008/003977 A1 (HEELEY et al) See whole document especially figures and paras (0001, 0004-0006).
X	1 - 6	US 4236396 A (SURKO Jr. et al) See whole document.
X	1 - 6	US 5513505 A (DANCS) See whole document especially figures and column 1 lines 40-60.

Categories:

X	Document indicating lack of novelty or inventive step	A	Document indicating technological background and/or state of the art.
Y	Document indicating lack of inventive step if combined with one or more other documents of same category.	P	Document published on or after the declared priority date but before the filing date of this invention.
&	Member of the same patent family	E	Patent document published on or after, but with priority date earlier than, the filing date of this application.

Field of Search:

Search of GB, EP, WO & US patent documents classified in the following areas of the UKC^X :

Worldwide search of patent documents classified in the following areas of the IPC
E05B
The following online and other databases have been used in the preparation of this search report
EPODOC, WPI

International Classification:

Subclass	Subgroup	Valid From
E05B	0009/00	01/01/2006
E05B	0015/02	01/01/2006