

(19)



Europäisches Patentamt

European Patent Office

Office européen des brevets



(11)

EP 1 211 376 A2

(12)

EUROPEAN PATENT APPLICATION

(43) Date of publication:

05.06.2002 Bulletin 2002/23

(51) Int Cl.7: **E05G 1/024**, E05G 1/00

(21) Application number: **01204445.9**

(22) Date of filing: **22.11.2001**

(84) Designated Contracting States:

**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE TR**

Designated Extension States:

AL LT LV MK RO SI

(71) Applicant: **Kolsteeg, Jeroen Thomas Simon**
1051 JL Amsterdam (NL)

(72) Inventor: **Kolsteeg, Jeroen Thomas Simon**
1051 JL Amsterdam (NL)

(30) Priority: **30.11.2000 NL 1016752**

(54) Demountable burglar proof compartment

(57) The invention relates to a device (1) constructed as a detachable burglar proof compartment in a large safe shape, which in a surprising way can be built-up of wall panels (2) with a door panel (4), angular panels (3)

and covering panels (5) on the building site, in which also in a very simple way the mentioned device (1) can be changed into a larger or smaller compartment and the whole construction has a high anti-burglary standard.

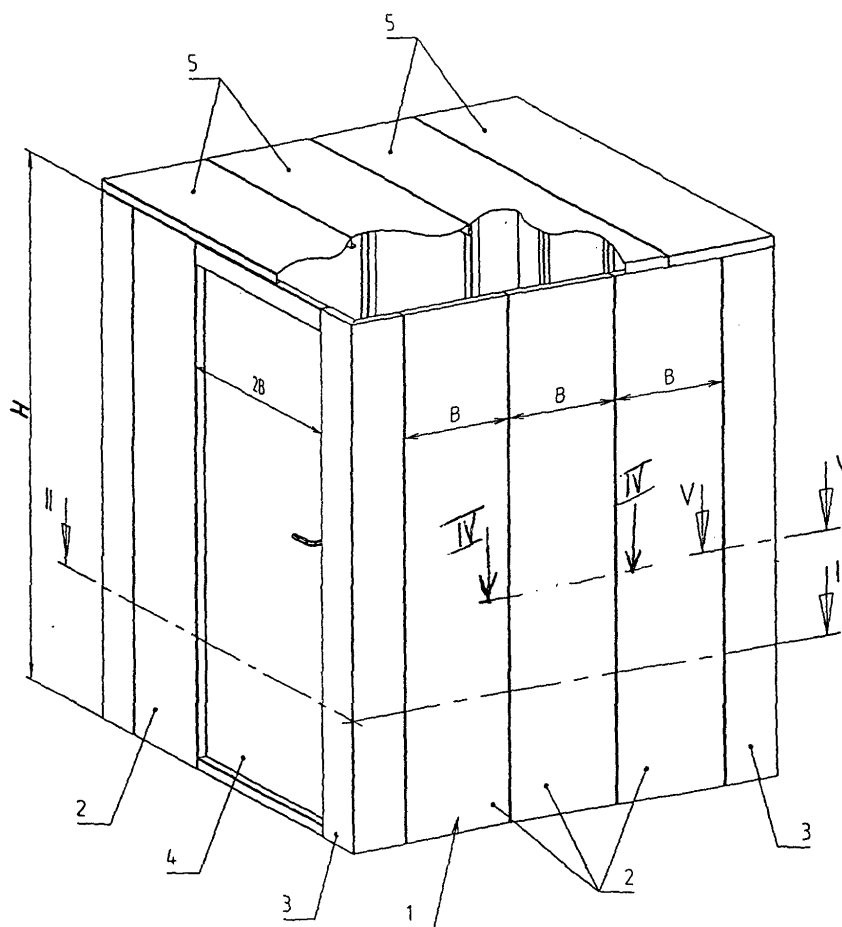


FIG.1

EP 1 211 376 A2

Description

[0001] The invention relates to a device in the form of a safe for storing valuable products and/or goods to protect these against theft and possible fire, in which the use is comparable with fixed, on site built chamber-shaped safes and/or large cabinets, which are provided with a steel access door.

[0002] Known are the ordinary safes for storing valuable articles and goods, as the mentioned articles and goods are a desired loot for burglars, who are becoming more and more professional. The ordinary safes have a number of disadvantages for the user, such as the ordinary known safe has certain standard dimensions, has a large weight and cannot be installed at any suitable place. Further only articles with small dimensions fit in the known safes. Also, radical alterations for the known safes result in high costs and inconvenience.

[0003] The aim of the present invention is to provide a device in the form of detachable burglar proof compartment, in which the aforementioned disadvantages are solved and of which the use offers many more possibilities, especially with regard to size of the articles and is highly burglar proof.

[0004] For this purpose a device in the form of a detachable burglar proof compartment is developed in a very inventive way in which the mentioned safe or compartment is constructed of detachable panels with width B, height H and panel thickness D for floor, walls and top covering, in which the panels consist of a set plate with plate thickness δ in which the mentioned panel plates are double turned at the edges in a surprisingly specific way at the long as well as the short sides, in which at the one long side a U-shape is obtained by bending and at the opposite long side a Z-shape is obtained, in which the dimensions of the U-shape and the Z-shape are chosen such, that on the outside a smooth wall is formed, in which during the setting of the plate the U-shaped bending is used near the short sides, in which when mounting, after positioning the adjacent panels to each other the U- and Z-shaped turned edges the panels are mountable to each other by means of a bolt and nut construction positioned on distance α from each other, in which the panel for the mentioned access door construction has a width of two panels or 2B, in which the door construction is lockable all around with several pins and police locks, in which the material of the mentioned panels is metal, in which on the inside of the panels lining can be applied for several options.

[0005] The advantage is a safe with the size of a small chamber or compartment which can be built-up quickly and at any suitable place, which hardly causes any inconvenience when built and in which many valuable articles and goods can be stored quickly and free from burglary.

[0006] Furthermore the device according to the invention is further developed in such a way, that the mentioned width B lies between 300 en 800 mm, preferably

approximately 500 mm, the mentioned height H lies between 1500 and 3000 mm, preferably approximately 2400 mm, the mentioned thickness δ of the plate material lies between 1 and 10 mm, preferably approximately 3 mm, in which a total panel thickness D is created of approximately 40 to 50 mm by mentioned bended plate, and in which the mentioned bolts are preferably M10 bolts with a positioning distance d of approximately 250 mm.

[0007] The advantages are that a very handy, healthy and safely mountable construction is created, which can be built almost at any suitable place on basis of a standard module size.

[0008] Furthermore, the device according to the invention is further developed in such a way, that the number of pins is approximately 8 and the number of police locks or security locks is approximately 4.

[0009] The advantage of this is, that a very well secured access door is obtained. In figure 6B safety standard 4.

[0010] The preferred construction of the invention will be described by way of example, and with reference to the accompanying drawing, in which:

- | | |
|---|---|
| <p>25 Fig. 1</p> <p>30 Fig. 2</p> <p>35 Fig. 3</p> <p>Fig. 4</p> <p>40 Fig. 5</p> <p>Fig. 6A up to 6C</p> <p>45</p> | <p>shows an oblique perspective of a mounted detachable burglar proof compartment consisting of panels for walls, covering and possible floor, according to a preferred embodiment of the present invention;</p> <p>shows a horizontal cross-section over the mentioned burglar proof compartment over the line II-II in figure 1;</p> <p>shows an oblique perspective of a wall panel according to a preferred embodiment of the invention;</p> <p>shows a cross-section IV-IV over mentioned wall panel of figure 3;</p> <p>shows a cross-section over an angular wall panel over the line V-V in figure 1; and</p> <p>show cross-sections over the joints of the two adjacent wall panels, door panel to wall panel and cover panel to wall panel.</p> |
|---|---|

[0011] Figure 1 shows an oblique perspective of a mounted detachable burglar-proof compartment 1, consisting of wall panels 2 with width B, the special angular panels 3, the access door panel 4 with width 2B and the covering panels 5, in which eventual floor panels are not visible. The height dimension H is also shown in figure 1.

[0012] Figure 2 shows a horizontal cross-section over the mounted detachable burglar-proof compartment 1, taken over the line II-II in figure 1. Here, the numbers of the concerned panels are indicated. Also, the mounted wedge bolts 6 for connection to the underlying floor are

indicated.

[0013] Figure 3 shows an oblique perspective of a wall panel 2 according to a preferred embodiment of the invention. The bolt holes 7 for interconnection on distance α are also indicated.

[0014] Figure 4 shows a cross-section IV-IV over the wall profile 2 of figure 3. Here, the U-shaped turn 8 and the Z-shaped turn 9 are indicated. The panel thickness D of approximately 35 mm is also indicated, as well as the plate thickness δ .

[0015] Figure 5 shows a cross-section over angular wall panel 3 with the specific U- and Z-shaped turned edges 8 and 9. The connection to the underlying floor by means of wedge bolts 6 is also shown. The interconnection of bolt and nut 7 is also schematically shown.

[0016] Figures 6A up to 6C show cross-sections over the connections 7 of the adjacent panels 2, a door panel 4 to a wall panel 2 and a covering panel 5 to a wall panel 2 with the mentioned bolt/nut connections 7.

[0017] Figure 6B shows the connection of a door panel 4 to the wall panels 2 and 3. In order to let the door post of the door panel 4 meet the safety standard 4, the door posts 8 and 9 should have the drawn cross-section and should be provided with extra posts 10 and 11.

[0018] The unit is fixed with bolts M10, the numerals 12, 13, 14, 15 have a heart to heart distance of approximately 250mm, in which the plates 16, 17, 18, 19 are used as "nut" or a bolt.

[0019] The police locks are indicated with 20. The actual access door 21 has the indicated plate-shape in cross-section.

[0020] Finally it has to be emphasized, that the above description constitutes a number of preferred embodiments of the present invention and that further variations and modifications are possible without departing the scope of this patent description.

Claims

1. Device in the form of a safe for storing valuable products and/or goods to protect these against theft and possible fire, in which the use is comparable with fixed, on site built chamber-shaped safes and/or large cabinets, which are applied with a steel access door, **characterized in that**, the mentioned safe or compartment (1) is constructed of detachable panels (2) with width B, height H and panel thickness D for floor, walls and top covering, in which the panels (2) consist of a set plate with plate thickness δ in which the mentioned panel plates (2) are double turned at the edges on a surprisingly specific way at the long as well as the short sides, in which at the one long side a U-shape is obtained by bending and at the opposite long side a Z-shape is obtained, in which the dimensions of the U-shape (8) and the Z-shape (9) are chosen in such a way, that on the outside a smooth wall is formed, in which setting of the

plate near the short sides the U-shaped turning is used, in which when mounting, after positioning the adjacent panels to each other the U- and Z-shaped turned edges (8, 9) the panels (2) are mountable to each other by means of a bolt and nut construction (7) positioned on distance α from each other, in which the panel (4) for the mentioned access door construction has a width of two panels or 2B, in which the door construction (4) is lockable all around with several pins and security- or police locks, in which the material of the mentioned panels is metal, in which on the inside of the panels (2) lining can be applied for several options.

2. Device as claimed in claim 1, **characterized in that**, the mentioned width B lies between 300 and 800 mm, preferably approximately 500 mm, the mentioned height H lies between 1500 and 3000 mm, preferably approximately 2400 mm, the mentioned thickness δ of the plate material lies between 1 and 10 mm, preferably approximately 3 mm.
3. Device as claimed in claims 1, 2, **characterized in that**, a total panel thickness D is created of approximately 40 to 50 mm by mentioned bended plate.
4. Device as claimed in claims 1 up to 3, **characterized in that**, the mentioned bolts (7) are preferably M10 bolts with a positioning distance d of approximately 250 mm.
5. Device as claimed in claim 1, **characterized in that**, the number of pins is approximately 8 and the number of security locks or police locks (20) is approximately 4.
6. Device as claimed in aforementioned claims, **characterized in that**, the mentioned material is metal, preferably electroplated or galvanized steel.
7. Device as claimed in aforementioned claims, **characterized in that**, the mentioned floor construction consists either of panels or aluminium sheets, in which the wall panels on the underlying consisting floor can be anchored, for example, by means of wedge bolts (6) and such.
8. Device as claimed in claim 1, **characterized in that**, the mentioned lining can be insulating and fire-proof.

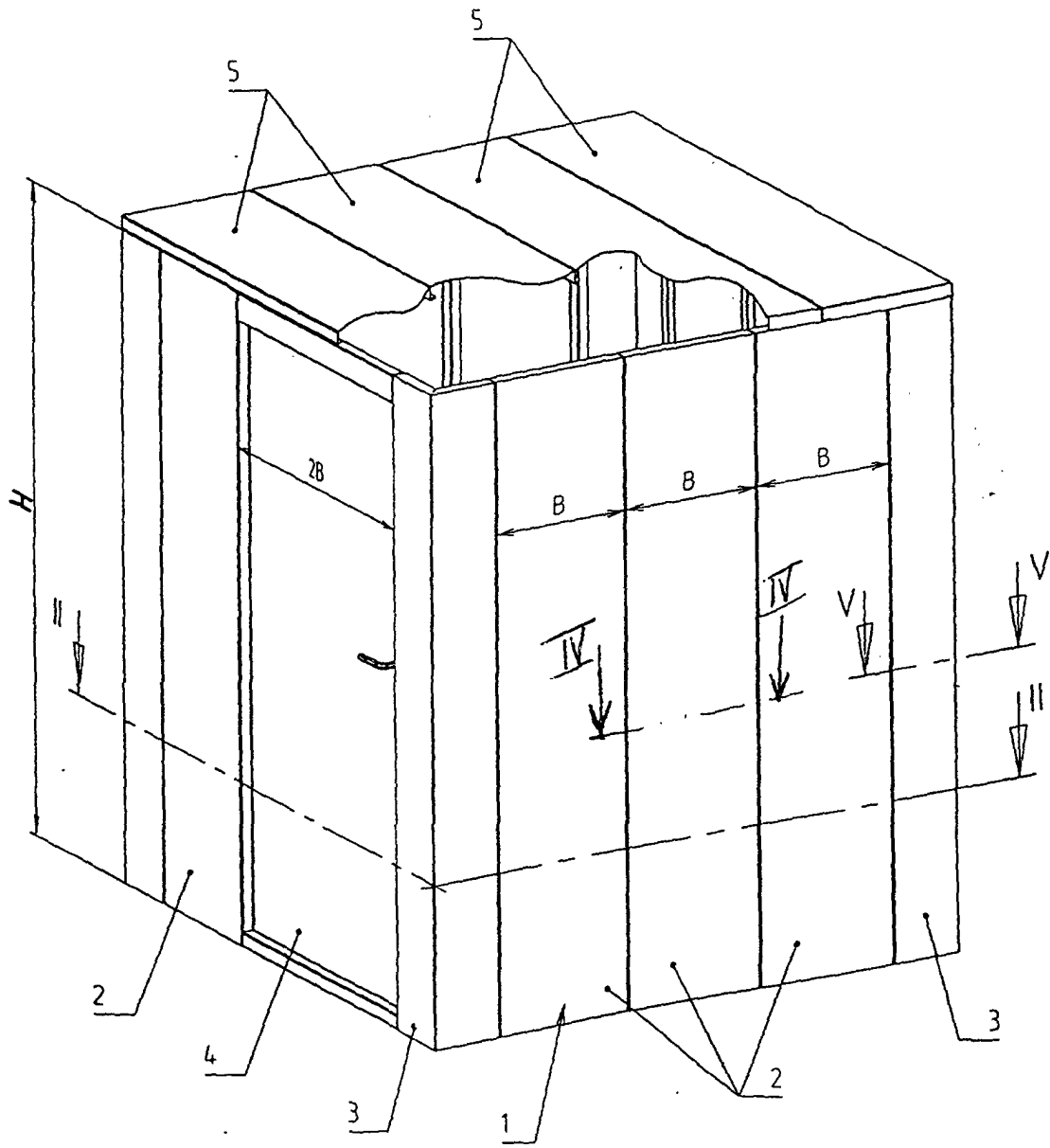


FIG.1

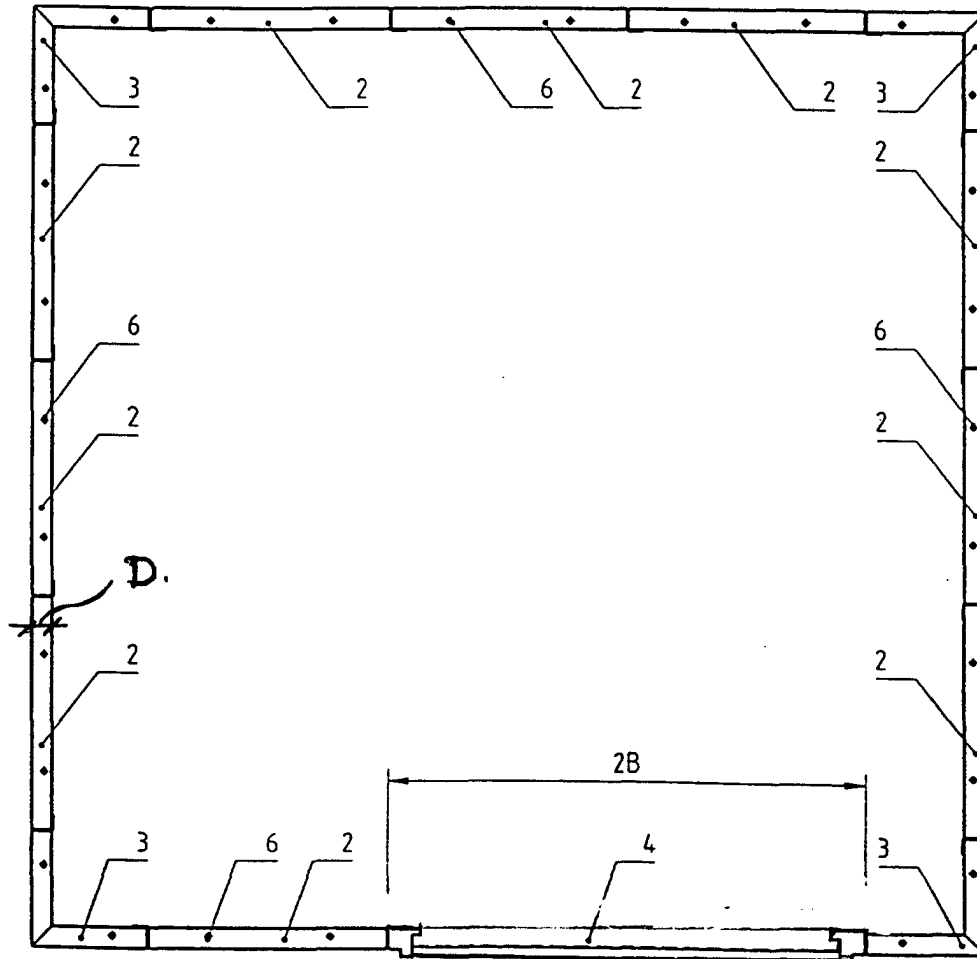


Fig.2

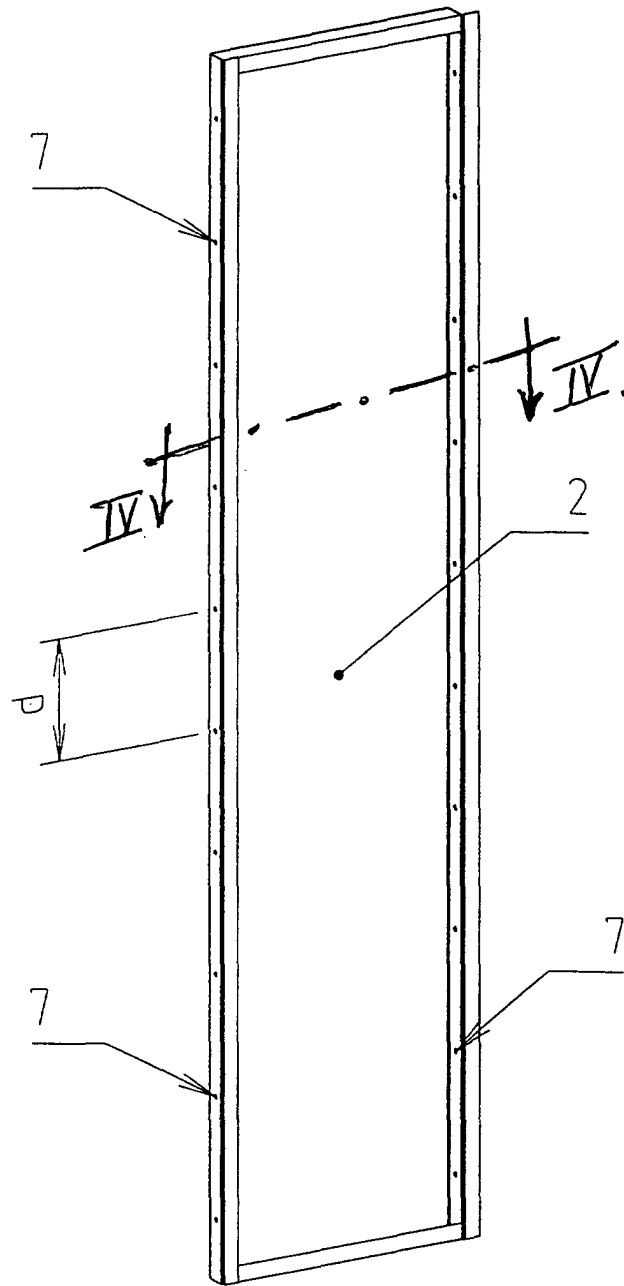


FIG. 3

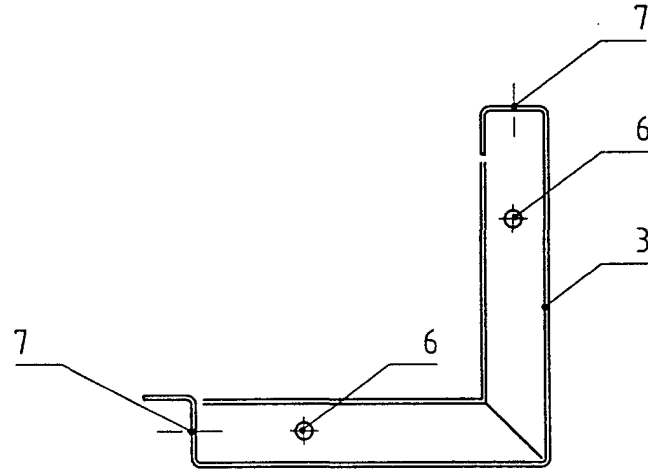


Fig.5

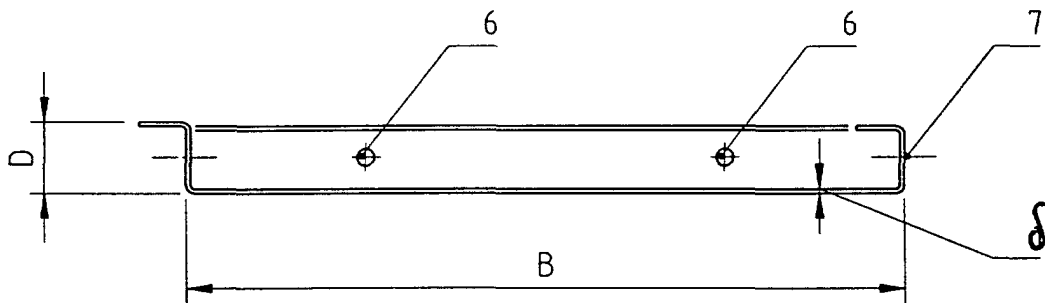


Fig.4

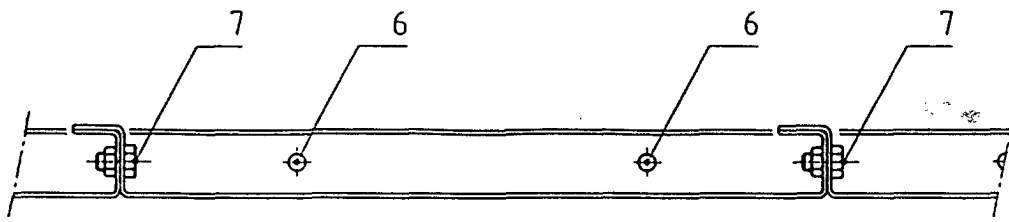


Fig.6A

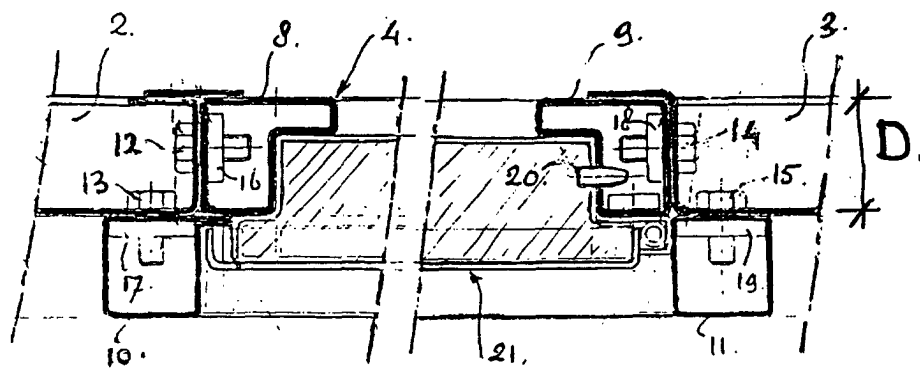


Fig.6B

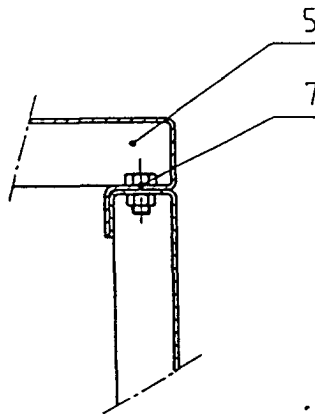


Fig.6C