

AFFIXABLE PORTABLE MINI-SAFE

The purpose of these specifications and attached drawings is to refer to a small, portable container, designed to serve as a small safe, to be placed on a table or vertical surface and which has interior mechanisms which secure it strongly to the surface on which it is placed so that it cannot be removed without operating said internal mechanism. Outside, on the top, there is a cover or lid, suitably fitted, and secured to the box forming the container by means of a lock with several fixing points. The structural and design features are significantly different from all similar existing safes so that, along with the qualities of novelty and practical utility, it is felt to have sufficient base for the granting of the exclusive privilege sought.

According to the invention there is provided an affixable portable safe wherein there is a cover or lid and a container, the cover or lid having around its periphery, tabs which, correctly positioned on the container, fit into openings in the upper edge of the mouth of the container, the openings comprising bayonet-shaped notches to retain the cover or lid by bayonet fastening, at least one tab being locked by a lock on the outside of the safe which closes off the

opening in the mouth of the container associated with the or each tab preventing the or each tab on the cover from being extracted from its associated opening, the safe further including a base plate which is arranged to be secured to a surface, the base plate being domed so as to define a chamber in use between the base plate and a surface to which it is secured, the safe also including a member to be trapped under the base plate in the chamber when the base plate is secured to a surface, the member being connected to the remainder of the safe to enable the container to be secured to the base plate.

Preferably, the portable mini-safe which is the subject of this invention is made up of two fundamental parts, one formed by the box or container as such and the other by the closing cover: the face view of the container is circular, in the form of a spherical disc. On its periphery, there is one or more bramah locks to close the cover: the upper opening of the safe has a step or depression and, at several equidistant points on said stepped projection, there are vertical notches followed by a further horizontal notch to form bayonet type hooks. The cover, in the shape of a spherical segment has, on the side edge, a strip secured to it with a number of protruding curves to secure and fasten the cover to

the safe.

In another variant of the invention, the portable mini-safe with components for securing it on a horizontal or vertical surface, even though such surface be porous or rough, so as to provide a small safe. To enhance this fastening or fitting process the base of the mini-safe incorporates a supplementary element by way of a bowl secured to the surface to be used and fastened to the mini-safe by a central shaft which can be moved by an internal mechanism so as to form a unit with the assembly as a whole.

Essentially, the affixable portable mini-safe of this design has a strip base with a protruding upward peripheral rib overlapping around the base of the mini-safe: in the centre, there is an upward circular recess with a prismatic opening in the middle through which the central fixing shaft or bar can pass: on several points of the surface of said strip base there are equidistant holes through which to screw it onto the surface to be used.

Inside said central upward circular recess, a disc is placed on the lower plane, preferably made of metal: in the centre, rivetted or otherwise fitted, there is a vertical shaft or bar which rises through

the base plate and which fits inside the mini-safe:
through it there is a diametric hole containing a pin
for fitting an articulation for an operating lever to
an eccentric point: once the base is screwed to the
5 surface to be used, and the central shaft or bar is
fitted inside the mini-safe, said eccentric lever is
operated and the mini-safe is completely secured to
the base itself.

10 The following refers to the attached drawings in
which a graphic representation is given of a practical
design for the affixable portable mini-safe. It
should be noted that, given the predominantly
informative nature of the drawings in question, the
15 figures should be taken with the very broadest
criteria and without any limitation.

The figures in said attached drawings show the
following:

20 Fig. 1 - Shows in a top face view the base plate
which affixes the mini-safe to its surface, with the
peripheral rib in elevation overlapping around the
mini-safe, the central protrusion in elevation with
25 the prismatic central opening and the peripheral
spaced holes for the screws.

Fig. 2 - A diametrical cross-section elevation

of the base plate in Fig. 1.

Fig. 3 - An elevation view of the element used in the bottom cavity of the base plate, formed by a disc, preferably made of metal, and a rising vertical bar or shaft moored to it.

Fig. 4 - An elevation view with a partial cross-section of a mini-safe fitted on the base plate which is in turn mounted on the surface where said mini-safe is to be set up.

Fig. 5 - An elevated lengthwise projection of the eccentric lever which lifts the component.

Fig. 6 - A face-view lengthwise projection of the eccentric lever which lifts the lower component.

At all times with reference to the attached drawings, it is to be noted that the figures include numerical indications related to the following description of the features and operation so as to facilitate their immediate location, the element marked 47 being the safe's cover or lid with the outside shape of a spherical segment: around it, alongside the fitting edge, a peripheral strip -2- is welded or otherwise fixed to it and from which curved horizontal tabs -3- emerge, facing inwards, equidistant from each other, and which provide the means to secure the cover to the safe.

The safe itself is made up of a spherical disc

element which has a recess -35- in the top leading to the protruding peripheral rib -6- in which, equally spaced, are the vertical grooves -7- in the form of openings, followed by the squared notch -8- which forms bayonet-shaped housings with which to fit and secure the cover or lid -47-. For these purposes, at one or more points on its periphery, the safe -33- has bramah locks -46- which, once operated, place the latch -48- alongside the vertical groove marked -7- making it impossible for tab -3- to move inside the notch 8, thereby keeping the cover firmly closed.

To secure the safe -4- to a support surface, fixed to the bottom there is a base-plate -31- with a depression -34- in the centre, whose sides are in the form of a truncated cone. Close to the periphery, outside, there is a ring made of rubber or similar material -13- which has sharp concentric protrusions -14-. A metallic internal body -39- carries the rising central shaft -40- that runs through the centre of the bottom plate -31- and depression -34-.

At the top end of the rising central shaft -40- is the diametrical pin -43- providing the articulated fitting for the operating lever -44- at the eccentric point -24-, after it has crossed the plate. The end of the shaft -40- fits inside the cavity -25- between

the wings -26- of the lever -44-: because of the
eccentric design -45- of the lever, in the position in
figure 1, there is an upward pull so that the metal
body -39- fits into depression -34- on the base
5 plate -31-.

Thus, the circular strip base plate -31- has an
upward-facing peripheral rib -32- overlapping around
the body -33- of the mini-safe: in the centre, there
10 is a raised cavity -34- formed upward from the base,
the middle of which has a prismatic opening through it
-35- and, at a number of equidistant points, holes
-36- through which it can be screwed -38- to the
surface -37-, with the base plate -31- fixed to said
15 surface -37- with the screws -38- before the mini-safe
is put in place.

The disc -39- preferably made of metal is placed
inside the elevated cavity -34-: in the centre is the
20 prismatic bar -40- that fits inside the central
opening -35- and which, in turn, runs through the base
plate -41- of the mini-safe -33-. Through the opening
-42- it is secured with a pin -43- to the operating
lever -44- which, because of the eccentric design
25 -45-, provides an upward pull as shown in Fig. 4, so
that the disc -39- rises until it is adjacent to the
bottom of cavity -34-, thereby securing the assembly

in place.

The general body of the mini-safe -33-
incorporates a bramah lock -46- to close the cover
5 -47-, in the form of a bayonet, with the latch -48-.

Following a full description of each and every
one of the parts making up the affixable portable
mini-safe which is the subject of this invention, it
10 remains only to be said that the different parts may
be manufactured in a variety of materials, sizes and
shapes, and the design may incorporate variations of
construction which experience may suggest, provided
that these do not alter the essential points which are
15 the subject of the following claims.

CLAIMS

1. An affixable portable safe wherein there is a cover or lid and a container, the cover or lid
5 having around its periphery, tabs which, correctly positioned on the container, fit into openings in the upper edge of the mouth of the container, the openings comprising bayonet-shaped notches to retain the cover or lid by bayonet fastening, at least one tab being
10 locked by a lock on the outside of the safe which closes off the opening in the mouth of the container associated with the or each tab preventing the or each tab on the cover from being extracted from its associated opening, the safe further including a base
15 plate which is arranged to be secured to a surface, the base plate being domed so as to define a chamber in use between the base plate and a surface to which it is secured, the safe also including a member to be trapped under the base plate in the chamber when the
20 base plate is secured to a surface, the member being connected to the remainder of the safe to enable the container to be secured to the base plate.

2. A safe as claimed in claim 1, wherein the
25 tabs are provided on a peripheral strip secured inside the lid or cover.



3. A safe as claimed in claim 1 or claim 2, wherein the base plate includes apertures to receive screws to secure it to a surface.

5 4. A safe as claimed in claim 1, 2 or 3, wherein the safe is dome-shaped.

10 5. A safe as claimed in any preceding claim, wherein the floor of the container substantially follows the shape of the base plate.

15 6. A safe as claimed in claim 5, wherein the base plate includes an upward-facing peripheral rib overlapping around the container base.

20 7. A safe as claimed in any preceding claim, wherein the member is connected to an eccentric operating lever inside the container which is arranged to provide an upward pull when operated to raise the member until it is adjacent the roof of the domed part of the base plate to secure the container against the base plate.

25 8. A safe as claimed in any preceding claim, wherein the member is a disc.

9. A safe substantially as described herein