A key storage device for storing a key outside is disclosed. The device has a body comprising a piece of landscaping material such as natural stone. A slot is formed in a bottom side of the material and is adapted to accommodate a key therein. A cover strip is sized to fit and substantially enclose the slot.
SLOTTED KEY STORAGE DEVICE AND METHOD
CROSS-REFERENCE TO RELATED APPLICATIONS

This application is a division of U.S. application Ser. No. 09/696,841, which was filed on Oct. 25, 2000, which in turn claims priority from U.S. Application Ser. No. 60/161,278 filed Oct. 25, 1999. Each priority application is hereby incorporated by reference in its entirety.

BACKGROUND OF THE INVENTION

1. Field of the Invention

This invention relates to the field of key storage devices, and more particularly to a device for holding a spare key in a convenient, safe and attractive manner consistent with outdoor landscaping.

2. Description of the Related Art

Keeping a backup or spare key for emergency purposes is desirable because keys are commonly lost or misplaced. One of the problems with keeping a backup or spare key, however, is that the key itself is susceptible to being lost or misplaced. Also, when the spare key to a residence or the like is stored outside, there is a risk that the key may be discovered by an unintended person. However, when additional effort is made to hide the key from unintended users, the risk of losing the key increases. Also, taking pains to hide the key is often impractical and unpleasant.

Various devices have been created to hold keys outside so that they are available to an intended user but hidden from unintended users. For example, boxes to hold the key can be buried or hidden and can have trap doors disposed therein to provide access to the key. However, these boxes may rust and age when exposed to harsh outdoor conditions. Trap doors may become inflexible over time and get stuck, becoming unopenable without dismantling the box. Also, devices that rust or allow excessive water to contact the key may facilitate the key becoming destroyed over time. Further, such devices may appear unnatural and are easy to identify as key-holders.

Another device comprises a plastic simulated boulder with a compartment formed therein for holding a key. Such a plastic device is not ideally suited to an outdoor environment because the plastic may age over time and fade. Also, a plastic device situated in a landscape may appear unnatural and be easy to spot. Even if the plastic device appears natural, the realities of plastics dictate that many such devices would be manufactured using the same mold and would thus be identical. Therefore, a potential burglar or other unauthorized person familiar with such devices would easily identify the plastic boulder as a key-holding device. Thus, the unauthorized person could easily retrieve a key from the device and gain convenient access to the house.

SUMMARY OF THE INVENTION

Accordingly, there is a need for a key storage device that appears natural and blends in with landscaping, provides easy access to the intended user, does not wear over time, and protects a key disposed therein from the elements.

In accordance with a preferred embodiment of the present invention, a key storage device comprising a landscape member having at least one slot formed on a side thereof and having a removable strip substantially covering the slot is provided. In certain other embodiments, the landscape member may be a natural stone or another article typically found in a landscape. After a key is placed in the slot, an elongate rubber strip may be applied to cover and substantially seal the slot.

In accordance with another embodiment having features of the present invention, a method for making a key storage device is disclosed. The method comprises the steps of forming a slot in a selected piece of natural material and forming a closing strip adapted to substantially enclose the slot. In certain other embodiments, further steps of the method can include using a circular grinder to form the slot in the piece of material.

In accordance with another embodiment having features of the present invention, a key storage device comprising a stone having a slot formed therein is provided. The slot is sized to accommodate a key and means are provided for substantially sealing the slot.

For purposes of summarizing the invention and the advantages achieved over the prior art, certain objects and advantages of the invention have been described herein above. Of course, it is to be understood that not necessarily all such objects or advantages may be achieved in accordance with any particular embodiment of the invention. Thus, those skilled in the art will recognize that the invention may be embodied or carried out in a manner that achieves or optimizes one advantage or group of advantages as taught herein without necessarily achieving other objects or advantages as may be taught or suggested herein.

All of these embodiments are intended to be within the scope of the invention herein disclosed. These and other embodiments of the present invention will become readily apparent to those skilled in the art from the following detailed description of the preferred embodiments having reference to the attached figures, the invention not being limited to any particular preferred embodiment(s) disclosed.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a perspective view of a key storage device having features in accordance with the present invention.

FIG. 2 is a bottom view of the key storage device of FIG. 1.

FIG. 2A is a cross-sectional view of a cover strip of FIG. 2 taken along lines 2A-2A of FIG. 2.

FIG. 3 is a cross-sectional side view of the key storage device of FIG. 1, taken along lines 3-3 of FIG. 1 and showing a key disposed in the slot formed in the device.

FIG. 4 is a bottom view of another embodiment of a key storage device having features in accordance with the present invention.

FIG. 5A is a cross-sectional side view of the key storage device of FIG. 1, taken along lines 5A-5A of FIG. 1.

FIG. 5B is a partial, cross-sectional side view taken along lines 5B-5B of FIG. 5A.
DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

[0021] Referring to FIGS. 1-3, the present invention comprises a key storage device 10 having a body 12 with a slot 14 formed on a bottom side 16 thereof. The slot 14 preferably extends into the body 12 and is sized to accommodate a key 18 therewithin. A strip 20 fits into the slot 14 to substantially enclose the slot 14 with the key 18 therewithin.

[0022] Preferably, the slot 14 is between about \( \frac{1}{8} \)-\( \frac{3}{8} \) inch in width, and is most preferably about \( \frac{1}{4} \) inch wide. The depth of the slot 14 is preferably between about \( \frac{1}{2} \)-\( 2 \) inches, and is more preferably between about 1 and 1\( \frac{1}{2} \) inches. The length of the slot 14 is preferably between about 2-6 inches, and is more preferably about 4 inches. The slot 14 is preferably formed by urging a circular rotating diamond grinder blade (not shown) into the body 12 to a predetermined depth. The grinder blade is preferably between about 2-7 inches in diameter, and is most preferably about 4-5 inches in diameter.

[0023] The planter cover strip 20 is adapted to substantially seal the slot 14 from entry by dirt, debris or water. Preferably, the cover strip 20 is an elongate rubber or plastic piece having outer ribs 24 (FIG. 2A). A hole 26 is preferably formed longitudinally through the strip 20 and aids compliancy. The ribs 24 aid in sealing of the slot 14 to undesirable elements. In practice, the strip 20 is preferably slightly larger in diameter than the diameter of the slot 14 so that the planter strip 20 seals the slot 14 from the elements when the strip 20 is placed within the slot 14 as will be understood by those skilled in the art. Likewise, the strip 20 is long enough to seal the slot 14 from the elements. Other types of playnt material that will at least partially fit snugly in the slot 14 can also be used as will be recognized by those skilled in the art.

[0024] Preferably, the strip 20 is sized to be about the same length as the slot 14 and each end 28, 30 is preferably cut at an angle, thus aiding removal of the strip 20 and sealing of either end of the slot 14. Having a strip 14 with at least one angled end also aids in removing the strip 20 from the slot 14 when desired. The angle \( \phi \) of the ends 28, 30 relative to the body 30 of the strip 20 is preferably between about 100° and 90° and more preferably is about 45°.

[0025] Preferably, the cover strip 20 is adapted to be reusable; however, in certain embodiments, various types of nonreusable strips may be used. For instance, a strip of tape such as duct tape may appropriately be used to seal the slot 14. Also, semi-permanent sealing methods, such as a glue gun, can be used.

[0026] The slot 14 is most preferably located on a substantially flat bottom side 16 of the storage device body 12. Smooth, rounded shapes may also be preferred. Body shapes with dramatic features may also be acceptable, but decreased sealing ability of the cover strip 20 should be expected.

[0027] To accommodate the slot 14 formed in the underside 16 of the body 12, the body 12 must, of course, be thicker than the depth of the slot 14. Preferably, the body 12 has a thickness much more than about \( \frac{1}{2} \) inch. Most preferably, the body 12 is at least about 2 inches thick. However, in an embodiment having a body that is not thick enough to accommodate a slot through its underside, the slot may be formed on another side of the body.

[0028] With next reference to FIG. 4, another embodiment of a key storage device 110 having features of the present invention comprises a body 112 having multiple slots 114, 115 formed in an underside 116 thereof. As with the above-discussed embodiments, a planter cover strip can be employed to cover each of the slots and protect a key stored within each slot. Alternatively, a single length of tape may cover both slots.

[0029] Referring to FIG. 5A, a key 18 is secured within a slot 114 in the underside 116 of the present invention by a strip 20. As will be understood by those of skill in the art, the strip 20 prevents water and other elements from entering the slot 114 and corroding or otherwise destroying the key 18. With regard to FIG. 5B, the ribs 24 aid in sealing the slot 114 from the elements. As discussed above, the ends of the strip 20 may be angled to snugly fit against the external ends of the slot. For example, referring to FIG. 3, the intersection of the slot 14 and the bottom surface 16 of the device 10 forms an angle. The strip 20 can have ends 28, 30 with a similar angle to secure the key 18 in the slot 14 without a gap between the cover strip 20 and the ends of the slot 14, thus safely securing the key 18 in the slot 14 and preventing exposure of the key 18 to the elements.

[0030] Of course, as discussed above, the cover strip may be replaced with other sealing means such as tape, glue or other devices known to those of skill in the art. Likewise, other devices may be stored in the slot 14. For example, instead of a key 18, money or other items may be safely and securely stored in the slot 14 of the device 10 as will be easily understood by those of skill in the art.

[0031] In practice, a user places a key to be stored in the slot 14 of the device 10. Thereafter, a strip 20 or another removable sealing device is used to enclose the key 18 the slot as shown in FIGS. 3, 5A and 5B. Preferably, once the strip 20 is placed in the slot 14, the key 18 is safely protected from the elements in the slot 14. Thus, the strip 20 is of a length to enclose the key 18 in the slot 14.

[0032] The device 10 may then be placed in a landscape with the entry of the slot 14 facing the supporting surface of the device such as the ground. Thus, people cannot see that the natural device 10, such as a rock, in fact protects a key as will be easily understood by those of skill in the art.

[0033] When a user needs the key 18, he or she can locate the device 10, turn it over, remove the strip 20 and retrieve the key 18. After use, the key 18 can easily be returned to the slot 14 and secured in the slot 14 by a strip 20. Given the natural look of the device, it is unlikely that the key 18 will be found by unintended users as opposed to prior art key retrieving devices.
Although this invention has been disclosed in the context of certain preferred embodiments and examples, it will be understood by those skilled in the art that the present invention extends beyond the specifically disclosed embodiments to other alternative embodiments and/or uses of the invention and obvious modifications and equivalents thereof. Thus, it is intended that the scope of the present invention herein disclosed should not be limited by the particular disclosed embodiments described above, but should be determined only by the claims that follow.

What is claimed is:

1. A method of retrievably storing an article, comprising:
   providing an article storage device comprising a body comprising a substantially hard material suitable for use in an exposed position in an outdoor landscape, the body having an undersurface with an elongate slot formed therein, the slot being between about \( \frac{1}{16} \) to \( \frac{1}{8} \) inch in width and having first and second ends, an opening, and a terminal side generally opposite the opening, the terminal side having arcuate portions adjacent the first and second ends;
   fitting an article into the elongate slot;
   providing a closing strip adapted to substantially close the opening of the elongate slot;
   releasably applying the closing strip to substantially close the opening of the elongate slot; and
   arranging the body so that the slot opening is generally downward facing.

2. The method of claim 1, wherein the arcuate portions of the terminal side have generally the same radius of curvature.

3. The method of claim 1, wherein the terminal side is arcuate from the first end to the second end and has a generally constant radius of curvature.

4. The method of claim 3, wherein the depth of the slot is between about \( \frac{1}{2} \) to 2 inches.

5. The method of claim 4, wherein the length of the slot is between about 2-6 inches.

6. The method of claim 1, wherein the body is sized and adapted so that it can be readily turned over by a user.

7. The method of claim 6, wherein the article comprises an elongate key, and fitting an article in the slot comprises arranging the elongate key to generally align with the elongate slot, and inserting the key in the slot.

8. The method of claim 6, wherein the body comprises natural stone.

9. The method of claim 6, wherein the body comprises man-made material.

10. The method of claim 6, wherein arranging the body comprises placing the body so that it is visible in a landscape, but the slot opening is hidden from view.

11. The method of claim 10 further comprising locating the body, turning it over, removing the strip, and retrieving the storage article.

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