

(19) **DANMARK**

(10) **DK/EP 3354828 T3**



Patent- og
Varemærkestyrelsen

(12) Oversættelse af
europæisk patentskrift

-
- (51) Int.Cl.: **E 05 B 67/38 (2006.01)** **B 65 D 5/42 (2006.01)** **G 09 F 3/00 (2006.01)**
- (45) Oversættelsen bekendtgjort den: **2020-04-27**
- (80) Dato for Den Europæiske Patentmyndigheds bekendtgørelse om meddelelse af patentet: **2020-03-25**
- (86) Europæisk ansøgning nr.: **18150399.6**
- (86) Europæisk indleveringsdag: **2018-01-05**
- (87) Den europæiske ansøgnings publiceringsdag: **2018-08-01**
- (30) Prioritet: **2017-01-26 DE 102017101503**
- (84) Designerede stater: **AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR**
- (73) Patenthaver: **ABUS August Bremicker Söhne KG, Altenhofer Weg 25, 58300 Wetter-Volmarstein, Tyskland**
- (74) Fuldmægtig i Danmark: **NORDIC PATENT SERVICE A/S, Bredgade 30, 1260 København K, Danmark**
- (54) Benævnelse: **VISNINGSINDRETNING TIL EN HÆNGELÅS**
- (56) Fremdragne publikationer:
DE-U1-202006 011 948
US-A- 858 264
US-A- 2 857 045
US-A- 3 586 163
US-A- 4 238 941
US-A- 4 819 465
US-A1- 2006 065 024

DESCRIPTION

The present invention relates to a presentation arrangement in accordance with the preamble of claim 1 for a padlock such as a classical padlock having a substantially U-shaped closing hoop or a so-called disc lock. Such presentation arrangements of this kind are substantially known
5 from the documents US 2 857 045 A, US 3 586 163 A and US 858 264 A.

Such padlocks are typically presented suspended at a presentation stand without any additional outer packaging for sales purposes, with the keys being fastened in a suspended manner by means of a keyring at the closing hoop of the lock. When such locks are presented without
10 outer packing, additional measures have to be taken to provide a lock presented in this manner with product information and/or sales information such as a barcode or an EAN (European Article Number). It is known for this purpose, for example, to additionally attach a sign to the anyway already present keyring for the keys, said sign also being able to be folded to form a
15 booklet or a brochure, with this sign bearing the desired information.

If, however, a plurality of such padlocks having a sign attached to the keyring are presented suspended at a presentation stand for sales purposes, the signs of the individual locks inevitably hang randomly or in an uncontrolled manner at the respective lock, which has the result that
20 the locks presented at the presentation stand in their entirety communicate a disorderly and chaotic overall impression, which can subconsciously result in a degradation of the locks among buyers.

Padlocks are indeed occasionally also presented packed in a blister packaging, with the product
25 information and/or sales information being integrated in the blister packaging; such blister packaging is, however, of concern in an ecological respect, which can have the result that some purchasers decide against a lock presented in this manner.

It is therefore the underlying object of the invention to provide a presentation arrangement for a
30 padlock which takes account of the problems described above. The presentation arrangement should in particular be unproblematic in an ecological respect and should enable a controlled and orderly attachment of product information and/or sales information to a padlock. The attachment should in particular be reproducible so that each lock substantially communicates the same overall impression.

This object is satisfied by a presentation arrangement for a padlock having the features of claim

1. The sign is suitable for attachment of the desired product information and/or sales
information such as a barcode or which bears this information, with this sign having at least
5 one opening through which the closing hoop of the lock extends.

Provision is therefore made to attach the sign directly or proximately to the padlock, in
particular to its closing hoop, so that no outer packaging is required which serves for receiving
both the lock and the product information sign. Since the sign is directly attached to the lock
10 and in particular to its closing hoop, each lock presented in this manner substantially
communicates the same overall impression since the sign, unlike in the attachment by means of
a keyring, is not suspended randomly or in an uncontrolled manner at the respective lock. Each
lock in the presentation arrangement in accordance with the invention rather essentially has the
same overall impression since the sign of each lock can always be attached in the same
15 manner, with the position of the sign not being able to be permanently changed or only being
able to change negligibly with respect to the lock. The presentation arrangement in accordance
with the invention thus enables an orderly and controllable attachment of a sign to a padlock
which is in particular also reproducible since each lock can be provided with a sign in always
the same manner so that said sign does not permanently change or only negligibly changes its
20 position with respect to the lock body.

Each lock presented in the form of the presentation arrangement in accordance with the
invention thus communicates the same overall impression. If a plurality of padlocks in the form
of the presentation arrangement in accordance with the invention are presented suspended at a
25 presentation stand for sales purposes, the locks in their entirety communicate an orderly overall
impression, which can subconsciously be perceived as a quality feature by the purchaser. In
addition, due to the fact that each padlock presented in the form of the presentation
arrangement in accordance with the invention communicates the same overall impression, a
uniform brand image is furthermore created which amplifies the recognition effect.

30 No protective blister packaging by which the respective padlock could be protected from
scratches is indeed present in the presentation arrangement in accordance with the invention;
such a protective blister packaging is, however, also not required since the sign itself can serve
as scratch protection in that it at least partly covers the lock body.

Preferred embodiments will now be looked at in the following. Further embodiments can result from the dependent claims, from the description of the Figures and from the drawings.

5 Provision can thus be made in accordance with an embodiment that the sign has two openings and that the closing hoop has a substantially U-shaped form with two limbs, wherein one of the limbs of the closing hoop extends through each of the two openings of the sign when the lock or the closing hoop is in the closed state. The position of the sign with respect to the lock is hereby particularly reliably fixed so that a lock presented in this manner always communicates
10 the same overall impression.

The position of the sign with respect to the lock can indeed also be secured, for example, when the sign only has one opening through which the closing hoop extends; in such a case, the sign can, for example, be folded such that the sign so-to-say enters into a form fit with the lock
15 body so that it cannot move with respect to the lock body.

Providing the sign with two openings, however, proves to be advantageous in that the sign can thereby be attached to the lock particularly simply without it being subsequently able to change its position with respect to the lock: The closing hoop only has to be led through one of the two
20 openings of the sign with its free end facing forward for this purpose in the open state of the lock. The sign is subsequently pushed over the closing hoop up to the end of the closing hoop disposed opposite the free end so that the second opening of the sign can be aligned with the free end of the closing hoop which can thereupon be led through the second opening aligned with the free end of the closing hoop when the lock or the lock hoop is closed. This naturally
25 requires that the two openings of the sign are spaced apart from one another by the same distance as the two limbs of the closing hoop.

The end user can push the sign back down from the closing hoop in a corresponding manner. Since the sign is preferably composed of thick paper, cardboard or board, the end user could
30 also simply pull the sign off the closed closing hoop, but this would have the consequence that the at least one opening of the sign is torn open. To avoid this, it would generally be possible to connect the respective openings of the sign via a slit to an adjacent margin of the sign. If in this case the sign were pulled off the closed closing hoop, the closing hoop would slide through the respective slit so that the sign could be non-destructively removed from the closing hoop.

Where an opening or a hole in the sign is therefore spoken of here, such an opening or such a hole thus does not necessarily have to have a closed margin.

A single-layer sign indeed already offers a comparatively large amount of space on its front and rear sides for a logo or for the affixing of product information and/or sales information; provision can, however, be made in accordance with a further embodiment that the sign is of double-layer design in order thus to be able to provide even more space for the logo and/or for the affixing of product information and/or sales information. The sign can thus, for example, have a fold and four holes arranged with mirror symmetry pairwise with respect to the fold, of which two respective holes are aligned or oriented with one another in a state of the sign folded together along the fold and thus together form two openings of the sign of which each receives one of the limbs of the closing hoop in the closed state of the lock. The sign can thus be configured as a kind of brochure or booklet if there is a need to be able to present the consumer with a particularly large amount of information.

In accordance with a further embodiment, the fold in question can divide the sign into two sections of substantially the same area which are in mirror symmetry with respect to the fold, with the holes being located closer to the fold than to a free end of the two sections of the sign of the same area remote from the fold. Provision is in this respect made in accordance with the invention that the openings are spaced apart from the fold by an amount which corresponds to approximately half the smaller dimension of the upper side of the lock body from which the closing hoop extends. The amount by which the holes are spaced apart from the fold is here measured up to the center of the respective opening, whereby it can be ensured that the upper side of the lock body is covered by the sign over substantially the full area and that the sign configured as a booklet can also be unfolded in the state attached to the lock in order thus to gain access to the information located there. In a corresponding manner, with a single-layer design of the sign, the openings can be spaced apart from a margin of the sign by an amount which corresponds to approximately half the smaller dimension of the upper side of the lock body from which the closing hoop extends. The margin in question from which the openings are spaced apart by an amount which corresponds to approximately half the smaller dimension of the upper side of the lock body therefore corresponds in the double-layer design of the sign to the fold with respect to which the four holes are pairwise in mirror symmetry. The fold in question with respect to which the four holes are pairwise in mirror symmetry thus, in the single-layer design of the sign, so-to-say corresponds to the margin from which the openings

are spaced apart by an amount which corresponds to approximately half the smaller dimension of the upper side of the lock body.

5 To serve as scratch protection, with a double-layer design of the sign, each of the two sections of the sign of the same area can have a further fold which is respectively spaced apart from the previously mentioned fold by an amount which substantially corresponds to the smaller dimension of the upper side of the lock body. In a corresponding manner, with a single-layer design of the sign, said sign can have a fold which is spaced apart from the previously mentioned margin by an amount which corresponds to the smaller dimension of the upper side
10 of the lock body from which the closing hoop extends. The sign can thus be kinked over at a right angle along this further fold in order thus to at least partly cover a broad side of the lock body as scratch protection.

15 In accordance with the invention, the sign thus at least partly covers the lock body, for which purpose provision can be made in accordance with a further embodiment that the sign is folded such that it at least partly covers the upper side of the lock body and at least one broad side of the lock body, optionally also both broad sides of the lock body, for which purpose the sign does not have to be configured in two layers or as a booklet or brochure.

20 The invention will now be described in the following purely by way of example with reference to the drawings, in which:

Fig. 1 shows two presentation arrangements in accordance with the invention of two padlocks in front and rear views;

25 Fig. 2 shows a sign for a presentation arrangement in accordance with the invention in front and rear views; and

Fig. 3 shows a presentation stand having a plurality of padlocks presented by means of
30 the presentation arrangement in accordance with the invention.

Fig. 1 illustrates two presentation arrangements 10 in accordance with the invention each having a padlock 12. In this respect, the left presentation arrangement 10 is shown in a front view and the right presentation arrangement 10 is shown in a rear view.

The two padlocks 12 are of the same design so that no distinction is made between the two padlocks 12 in the following. The padlock 12 has a lock body 14 and a substantially U-shaped closing hoop 16 in a manner known per se. The lock body 14 has a substantially parallelepiped design with a substantially planar upper side 22 from which the U-shaped closing hoop 16 extends. The closing hoop 16 has a first limb 18 and a second limb 20, with its second limb 20 being non-releasably attached in a movable manner to the lock body 14 in a manner known per se. In the open state of the lock 12, the first limb 18 forms a free end in a manner known per se, which makes it possible that the closing hoop 16 of the padlock 12 can, for example, be hung into a latch or the like.

For sales purposes or presentation purposes, a sign 24 composed of paper, board or cardboard is attached directly or proximately to the padlock 12 presented in the form of the presentation arrangement 10 in accordance with the invention. The sign 24 serves for presenting product information and/or sales information such as a barcode which can be printed onto or, for example, adhesively bonded to the sign 24. Alternatively or additionally, an electronic identification means such as an RFID transponder can be provided at the sign 24 by means of which the lock 12 cannot only be identified, but optionally also localized and tracked, for example to provide protection from theft. Such an RFID transponder can also include product information and/or sales information which can be read contactlessly at a sales location. If the RFID transponder, for example, includes price information, a padlock 12 presented in the form of the presentation arrangement 10 in accordance with the invention is additionally suitable for cashless transactions since the price information can be read contactlessly when a purchaser with a padlock 12 presented in the form of the presentation arrangement 10 in accordance with the invention passes a payment station of a sales location or leaves the sales location.

To be able to attach the sign 24 directly to the padlock 12 or to its closing hoop 16, the sign 24 has two openings 26 in the embodiment shown here, with one of the limbs 18, 20 of the closing hoop 16 extending through each of these openings 26. It can, however, also be sufficient only to fasten the sign 24 to one limb 18, 20 of the closing hoop 16, for which purpose a single opening 26 in the sign 24 would be sufficient.

As can be seen from Fig. 1, the sign 24 covers both the upper side 22 of the lock body 14 from which the closing hoop 16 extends and a broad side 28 of the lock body 14, for which purpose

the sign 24 is folded at a right angle along a fold 30 which is spaced apart from a margin of the sign 24 by an amount which approximately corresponds to the smaller dimension of the upper side 22 of the lock body 14. The sign 24 thus covers both the upper side 22 and a broad side 28 of the lock body 14 like an apron, whereby said lock body is protected from unwanted scratches.

To be able to attach the sign 24 to the padlock 12 or to its closing hoop 16, the free end of the first limb 18 is threaded through one of the two openings 26 of the sign 24, whereupon the sign 24 can be pushed over the closing hoop 16 up to the end of the second limb 20. The sign 24 is subsequently oriented such that the other opening 26 is aligned with the bore in the lock body 14 which receives the free end of the first limb 18 in the closed state of the lock so that the free end of the first limb 18 can be led through this opening 26 into the bore of the lock body 14 and the lock 12 can thus be closed. The sign 24 is thus captively attached to the lock 12 for presentation purposes or sales purposes, with it not being able to change its position with respect to the lock 12.

Fig. 2 shows a sign 24 designed with double layers in an unfolded state in front and rear views. This sign 24 has a fold 34 at the center which divides the sign 24 into two sections 36 which are of substantially the same area and which are in mirror symmetry with respect to this fold 34. The sign 24 shown in Fig. 2 furthermore has four holes 38 which are arranged pairwise with mirror symmetry with respect to the fold 34. If the sign 24 is folded and bent over along the fold 34, a respective two of the four holes 38 are thus aligned with one another and thus in turn form two openings 26 in the bent-over state of the sign 24, through which openings the two limbs 18, 20 of the closing hoop 16 can extend in accordance with the above explanations for Fig. 1.

So that this sign 24 which is configured as a booklet or as a brochure can also be opened when it is attached to a padlock 12, the holes 38 are spaced apart from the fold 34 by an amount which substantially corresponds to half the smaller dimension of the upper side 22 of the lock body 14, measured up to the center of the holes 38. Each of the sections 36 of the sign 24 of the same area furthermore also have a fold 30 here which is spaced apart from the fold 34 along which the sign 24 is bent over by an amount which corresponds to the smaller dimension of the upper side 22 of the lock body 14. In the bent-over state, the sign 24 can thus be kinked

substantially at a right angle along the two folds 30 in order, in a state attached to the lock 12, to be able to at least partly cover both its upper side 22 and a broad side 28.

5 So that the sign 24 is not damaged when it is pulled off the closing hoop 16, the holes 38 of the sign 24 can each be connected via a slit 32 to an adjacent margin of the sign 24. If the sign 24 is pulled off the closing hoop 16 in this case, the closing hoop 16 slides through the respective slit 32 so that the sign 24 can be non-destructively removed from the closing hoop 16.

10 Fig. 3 shows a presentation stand 42 at which a plurality of locks 12 are presented for sales purposes in the form of the presentation arrangement 10 in accordance with the invention. The locks 12 are in this respect threaded by means of their closing hoops 16 onto cantilevers 40 which project from the presentation stand 42. Although the individual locks 12 are threaded on in file here, there is no risk that the locks 12 scratch one another since the individual locks 12 and in particular the lock bodies 14 are separated from one another by the signs 24 which are
15 attached thereto and which thus serve as scratch protection. Particularly reliable scratch protection can indeed be ensured when the signs 24 cover both the front and rear broad sides 28 of the respective lock body 14; it is, however, sufficient if the signs 24 only cover one broad side 28 since the unprotected broad side 28 of a lock is protected from scratches by the sign 24 of the next lock 12.

Reference numeral list

	10	presentation arrangement
	12	padlock
5	14	lock body
	16	closing hoop
	18	first limb
	20	second limb
	22	upper side
10	24	sign
	26	openings
	28	broad side
	30	fold
	32	slit
15	34	fold
	36	sections of the same area
	38	holes
	40	cantilever
	42	presentation stand

PATENTKRAV

1. Visningsindretning (10) til en hængelås (12), omfattende:

- en hængelås (12) med et låselegeme (14) og en låsebøjle (16); og
- et skilt (24) af papir, karton eller pap;

5 hvor skiltet (24) har i det mindste en åbning (26), gennem hvilken låsebøjlen (16) strækker sig;
kendetegnet ved, at midten af den i det mindste ene åbning (26) er anbragt med en afstand fra en kant af skiltet, som svarer til halvdelen af den mindre dimension af oversiden (22) af låselegemet (14), fra hvilken låsebøjlen (16) strækker sig.

10 **2.** Visningsindretning ifølge krav 1,

kendetegnet ved, at skiltet (24) har to åbninger (26), og låsebøjlen (16) omfatter to ben (18, 20), hvor et af benene (18, 20) strækker sig gennem hver en af åbningerne (26).

3. Visningsindretning ifølge krav 1,

15 **kendetegnet ved, at** skiltet (24) har en første fals, der er anbragt med en afstand fra kanten, som svarer til den mindre dimension af oversiden (22) af låselegemet (14), hvorfra låsebøjlen strækker sig.

4. Visningsindretning ifølge i det mindste et af de foregående krav,

20 **kendetegnet ved, at**

skiltet (24) har en anden fals (34) og fire huller (38), som er anbragt parvist spejlsymmetrisk i forhold til den anden fals (34) og udgør skiltets (24) to åbninger (26) i en sammenfoldet tilstand af skiltet (24) langs den anden fals (34).

25 **5.** Visningsindretning ifølge krav 3,

kendetegnet ved, at

den anden fals (34) inddeler skiltet (24) i to afsnit (36) med samme areal, som er spejlsymmetriske i forhold til den anden fals (34), hvor hullerne (38) befinder sig tættere på den anden fals (34) end på en fri ende af skiltets (24) to afsnit (36) med samme areal, som er
30 anbragt væk fra den anden fals (34).

6. Visningsindretning ifølge krav 4 eller 5,

kendetegnet ved, at hullerne (38) er anbragt med en afstand fra den anden fals (34), som

svarer til halvdelen af den mindre dimension af oversiden (22) af låselegemet (14), fra hvilken låsebøjlen strækker sig.

7. Visningsindretning ifølge krav 5 eller 6,

- 5 **kendetegnet ved, at** hver af skiltets (24) afsnit (36) med samme areal har en yderligere fals (30), som hver er anbragt med en afstand fra den anden fals (34), som svarer til den mindre dimension af oversiden (22) af låselegemet (14), fra hvilken låsebøjlen (16) strækker sig.

8. Visningsindretning ifølge i det mindste et af de foregående krav,

- 10 **kendetegnet ved, at**
skiltet (24) i det mindste delvist dækker låselegemet (14).

9. Visningsindretning ifølge i det mindste et af de foregående krav,

kendetegnet ved, at

- 15 skiltet (24) er foldet på en sådan måde, at det i det mindste delvist dækker en overside (22) af låselegemet (14), fra hvilket låsebøjlen (16) strækker sig, og i det mindste en bred side (28) af låselegemet (14), foretrukket begge brede sider (28) af låselegemet (14).

10. Visningsindretning ifølge i det mindste et af de foregående krav,

- 20 **kendetegnet ved, at**
låselegemet (14) har en i det væsentlige blokformet udformning med en i det væsentlige plan overside (22), fra hvilken låsebøjlen (16) strækker sig.

11. Visningsindretning ifølge i det mindste et af de foregående krav,

- 25 **kendetegnet ved, at**
skiltet (24) har et elektronisk identifikationsmiddel, f.eks. en RFID-transponder.

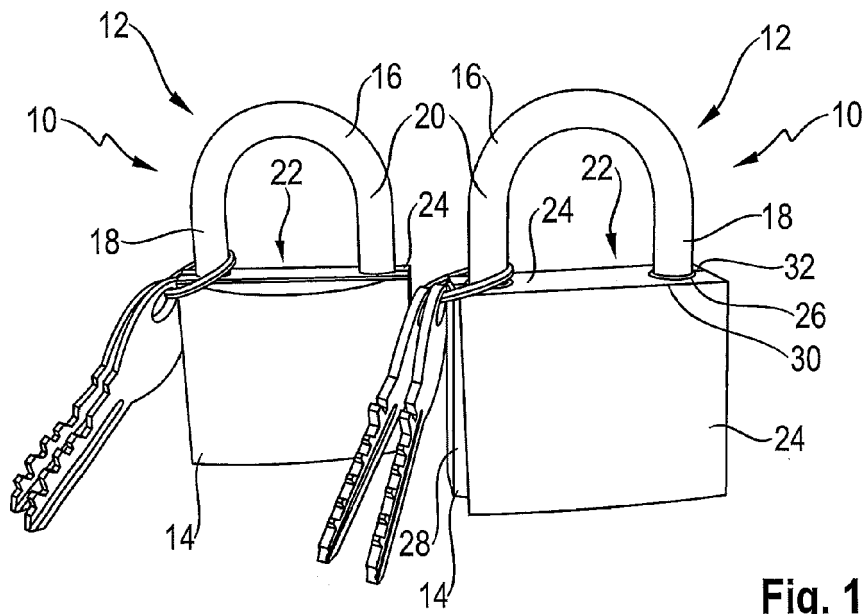


Fig. 1

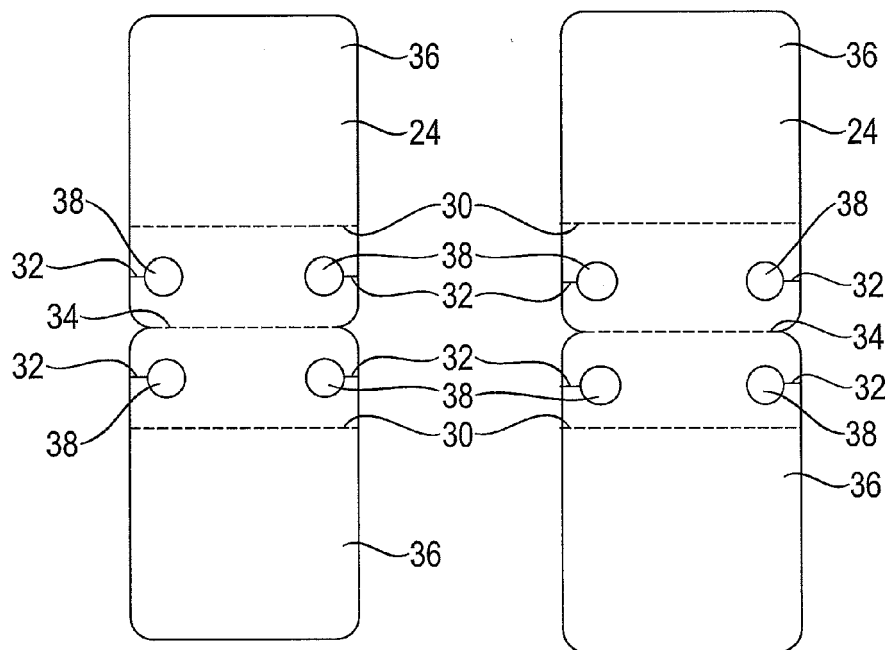


Fig. 2

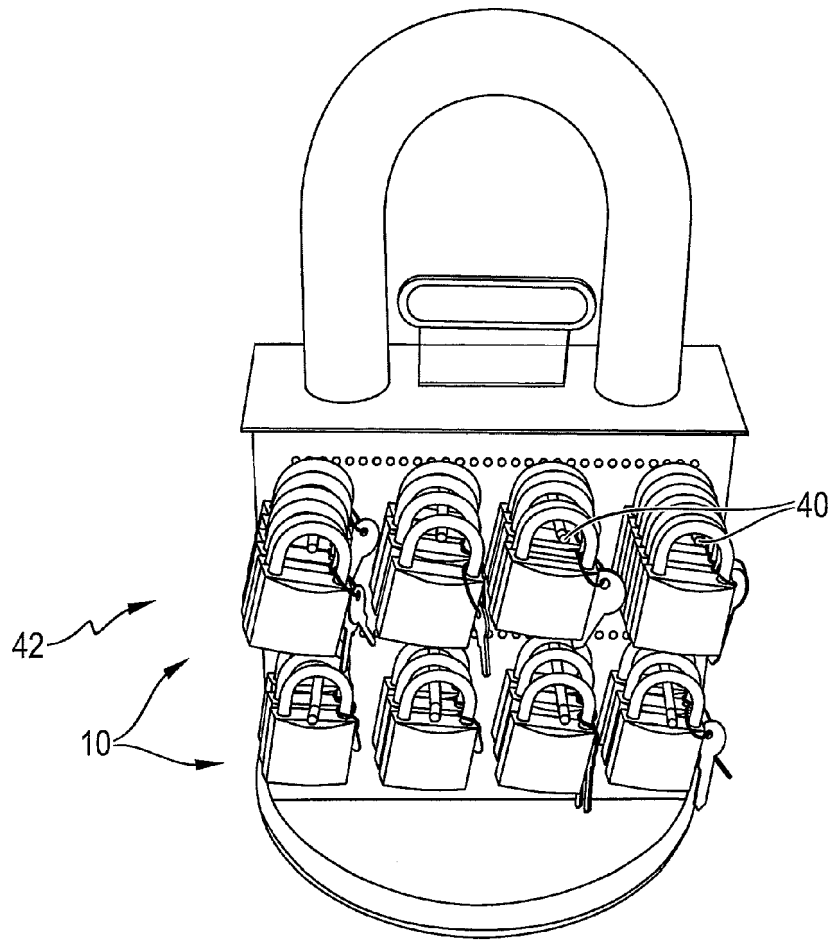


Fig. 3