Application for patent rights
Project : CS Padlock Seal

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Descrpition

1. Field of Invention

This is a self-locking padlock with an acrylic body for long field life. The subject invention relates to securing money handling, personnel belongings and cargo industries.

The material is made from Acrylic or Acrylic with UV which is durable and light weight.

The top and bottom housing are jointed via using ultra-sonic welding, meaning the only way to open it, is to crack and break it.

The key factor in this invention is irreversible usage, meaning cutting tool is needed for removal. The decorated label is completely encased to protect from dirt or alteration.

2. Description of Related Art

The mechanical designs of CS Padlock Seal are such that it incorporates reliable security issues. Apart from easily replaced locks in the market, this device stands out in sense of security and consumers' confident. These are the important factors to product marketability.

3. Summary of Invention

It is an object that:

- Frangible acrylic material is chosen as it provides tamper evidence clearly and crime cannot be subsequently hidden or covered up.

- The locking mechanism, 0.047"(1.2mm) diameter stainless steel wire hasp, is completely enclosed. The clear outer body and colored insert display long shelve life.

- Label is decorated with either bar code, human readable serial number and company name located inside the seal.

4. Brief Drawing Description

- An orthographic view of the invention. *(Figure 1&2)*

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- An exploded view of the invention.*(Figure 3)*
- A perspective view of the invention. *(Figure 4)*

5) Detail Descriptions Reference to Drawing

The orthographic view*(Figure 1&2)* shows:

- The front view and side view of the final product before lock*(Figure 1)* and after lock*(Figure 2)* with dimension stated.

- The front view shows the overview of final product, consisting of barcode label tag on outer clear plastic.

The exploded view*(Figure 3)* shows:

- The component Ⓐ, outer clear plastic encase.

- The component Ⓑ, color insert design with locking features which provide the inter-locking function for locking the wire hasp.

- The component Ⓒ, wire hasp formed with inter-lock feature against component B features.

The perspective view shows:

- The final product been assembled with label, serial numbers or barcode.(*Figure 4)*

6) Conclusion

This new invention is cater for in-bond shipments, trailers, hatches, meters, tote boxes, airline bar boxes, doors, money pouches, bags, tankers and meter sockets. Users can use the invention for additional security due to its self-locking seal.

Tampering with the application would be un-hidden and cannot be re-attached if broken. The padlock has customized wording and consecutive numbers to enforce accountability and tracking purpose.

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Claims

The claimed is:

The invention consists of 3 different parts.

Ⓐ Outer Clear Plastic

Ⓑ Colored Insert

Ⓒ Wire Hasp

Each piece has its own uniqueness and functions which efficiently increase the sense of security for the customers.

The padlock seal consists of 2 protruded areas, one being the bar-coded and another wire which is to be inserted into the locking area.

The key factor in this invention is irreversible usage, meaning cutting tool is needed for removal. The decorated label is completely encased to protect from dirt or alteration.

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