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Application for patent rights
Project: CS-Grip

Abstract

This invention discloses a secure lock intended for use for security.

The invention consists of 3 different parts,

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- Ⓐ clear plastic housing (TRS Housing),
- Ⓑ colored insert (TRS Insert),
- Ⓒ soft stainless steel wire

1. The invented product can be adjusted to seal a wide range of applications relates to sealing drums, electric meters, totes and cargo industries.
2. This also allow for shippers, carriers, retailers, banks, and logistics providers to protect their cargo.
3. It is made of polycarbonate and features an integral insert with flexible flips inserted into the housing with the flexible flips contacted and lock against the housing teething-steps.
4. The insert when inserted into housing is hold and blocked by the constructed undercut chamfers at the entrance of the housing.
5. Both housing and insert are constructed with 2 straight thru-holes, such that when both are assembled, the insert can be rotated free so as to get the holes of housing and insert aligned in a straight line.
6. Soft stainless steel wire is used such the wire enjoys great flexibility and is corrosion-free.
7. Inserting both ends of wire through the aligned 2 holes of the housing and insert, the wire can then be tightened by twist-rotating the flag of the insert in the rotating manner. Rotating can only be done in one direction as the insert flexible flips locked with the housing teething-steps prevented anti-rotation.
8. To further enhance on the security, once the locking is confirmed to the required, the flag on the colored insert can be break off by bending.
9. For security and tracking purpose, the clear housing flag can be heat-stamped or laser-mark with company logo along with sequential serial numbers or barcodes.
10. This invented security device can only be release by using a cutter to cut off the stainless steel wire.