



Robust and Lightweight Enclosure Material Sought For Self-Service Devices Used in Banking and Financial Services (08 GB 46P4 0JFU) 

Abstract

A global technology company based in Scotland is seeking a new lightweight material to make enclosures for banking self-service devices smaller, lighter to transport and easier to manufacture. The material must also be robust and maintain a high tensile strength (e.g. 50000 psi) and a surface hardness associated with steel. Materials should ideally be ready to test or in the course of development. The company seeks technical cooperation or a license or joint venture agreement

Description

Many financial self-service devices contain media that must be protected from physical intrusion. Such media includes banknotes and cheques. The traditional method of protection is an enclosure made of steel or a concrete and steel construction capable of withstanding attack by tools, such as hammers, drills, wedges, crowbars, etc and also attack by thermal devices for a set duration dictated by UL291 and CEN standards for safes. Such enclosures are bulky, heavy, and difficult to manufacture. The size and weight makes transportation expensive and installation difficult.

It would now be beneficial, and be more environmentally friendly, if these enclosures could be easier to manufacture, smaller and lighter to transport, yet maintaining qualities where they are resilient to attack.

The new material must be robust and maintain a high tensile strength (e.g. 50000 psi) and a surface hardness associated with steel. Materials ideally should be ready to test or in the course of development.

Technical Specifications / Specific technical requirements of the request

The company requires a material that will be used in the construction of enclosures to replace the 14 mm thick steel or 40 mm thick steel/concrete constructions used at present. The material should be lighter and thinner than that used at present whilst maintaining a high tensile strength (e.g. 50000 psi) and a surface hardness associated with steel. The construction should preferably meet the standards of UL (Underwriters' Laboratories) and CEN (European Committee for Standardisation) in this context where physical attacks on the material should be resisted for over 15 minutes without giving access to the media within.

For further information (including IPR status) please contact:

Susanna Chericoni
Phone: 39 050 931620
Fax: 39 050 931640
Email: s.chericoni@cpr.it