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PATENT APPLICATION FULL TEXT AND IMAGE DATABASE



(1 of 1)

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| MACLEAN; ROBERT JAMES | April 12, 2018 |

Anti - Terrorism / Anti - Personnel Mobile Commercial Passenger Aircraft Physical Flight Deck / Cockpit Secondary Barrier Galley Cart / Aircraft Secondary Barrier Cart ((ASBC))

Abstract

The Aircraft Secondary Barrier Cart includes a main housing, with at least two retractable cables with metallic safety-hooks at the ends that connect to the two female loops behind each bulk-head. When deployed, the two cables hold the barrier cart in place. The two retractable cables are connected to a ratcheting system to stabilize and strengthen the barrier cart's stability after deployment. The ratcheting system includes a release lever to disengage the two main-housing cables before stowage. The barrier cart includes a folding-barrier with elastic and polymer safety-hooks sewn in. When the curtain or net gets expanded, its safety-hooks attach to several female loops riveted into the upper portion of the forward galley entrance.

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Claims

1. A Mobile Secondary Barrier System comprising: a main housing; at least two retractable cables attached to said main housing and configured to attach to at least two points on an aircraft; at least one ratcheting system configured to hold said main housing in place; a release lever configured to disengage the at least two retractable cables from said aircraft; a curtain barrier designed to increase the height of the main housing when deployed; and at least two safety hooks attached to said curtain barrier configured to hold said curtain barrier in place.

Description

[0001] Solo suicidal terrorist attacks, also known as "lone-wolf attacks," are becoming more common daily. "Lone-wolf attacks" are delivered by such means as Improvised Explosive Devices (IED) worn on the body or contained in a vehicle, or driving a speeding vehicle into a crowd of victims.

[0002] Suicidal "lone-wolf attacks" on commercial passenger aircraft (aircraft) are a very real threat because of the inability of detection by airport security screening machines, airport screeners, law enforcement, and the Intelligence Community. Firearms pose less of a threat because of their detectable metallic parts, the fear of extinguishing all ammunition and being restrained, and the limited killing ability-a standard semiautomatic pistol's 18 rounds cannot neutralize a single-aisle aircraft of over 100 passengers. Building, hiding, and smuggling IEDs requires special material, numerous experts, and planning-such a major operation and its operatives are likely to be detected.

[0003] After the Sep. 11, 2001 terrorist attacks (9/11), a pilot will not risk total destruction of the aircraft by unlocking the Flight Deck under duress.

[0004] Sprinting and diving into a Flight Deck, also know as a "cockpit," only needs one attacker and one opportunity when a pilot enters the cabin during flight to use the lavatory, obtain sustenance, or crew-rest.

[0005] This perfectly effective inflight security invention is a relatively inexpensive mobile commercial passenger aircraft galley cart physical secondary barrier to stop an individual from sprinting and diving into an unlocked flight deck in order to destroy it during flight.

TECHNICAL FIELD

[0006] 0001:

[0007] Currently most commercial passenger aircraft (aircraft) do not have a secondary barrier system to prevent an individual from sprinting and diving into the Flight Deck during flight.

BACKGROUND ART

[0008] 0002: NOT APPLICABLE

SUMMARY OF INVENTION

[0009] A mobile secondary barrier system to prevent an individual from sprinting and diving into a commercial passenger aircraft Flight Deck in order to destroy the aircraft while in flight.

Technical Problem

[0010] 0003:

