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Cross Your Heart seat belt system

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ABSTRACT

The Cross Your Heart 1 seat belt design allows both lap sash seat belts to cross over the chest of the seat occupant, the floor mounts 2 ensure that the seat is firmly attached to the vehicle, push button seat belt clips 3 are linked, so as to simultaneously dis - engage the seat belts. In order to allow adjustment of the protruding shoulder - level sash/s there are shoulder mounted 4 adjustable seat belt guides. This design ensures that the lap / hip section of the seat is secure by 5 two lap belts. Two 6 inertia reels are fastened to the back of the seat, the floor mounts 7 must be sturdy and bolt firmly onto the 8 adequately / strengthened floor of the vehicle, and finally the rear view back rake section of the seat must be adequately padded and cover the interia reels and seat frame.

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Cross Your Heart Seat Belt System
Refer Fig. 1 - 4

For many years now commercial motor vehicles have used the traditional lap sash seat belt system. Light aircraft and recreational vehicles have often utilised the commonly known H - harness restraint system.

The Cross Your Heart seat belt system comprises of 2 (two), double lap sash belts Fig 1:1, with the sash belts crossing over the middle of the wearers chest, this system is built in to the vehicles' seat frame Fig 1:5.

Each seat that is equipped with this configuration has 2 (two) seat belts securely fastened to the base of the back - rake of the seat; 1 seat belt on the left and additionally the right side of the seat frame Fig 3:6. Thus, also requiring 2 (two) seat belt fastening clips that are to be mounted at hip level on the base frame of the seat Fig 3:3, both seat belt anchorage points are to be located below the fastening clips' location.

The seat that incorporates this double lap - sash seat belt configuration must be made strong enough to take the subsequent impact / force that the vehicle to which it is fastened may incur.

Therefore the seat belt forms a cross over configuration of the sash and a double lap belt formation; when correctly fitted Fig 1: 1,5.

This configuration of seat belts will give added restraint to the seat occupant: a belt passing over the left shoulder to the right hip (sash) and across the waist (lap) and over the right shoulder (sash) to the left hip and across the waist (lap) Fig 1:1,5.

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The seat that is fitted with this design is ideally to be made of light - weight strengthened steel and the seat belt/s are to be made of the commonly used nylon webbing material.

The seat to which this seat belt system is attached must have adjustable guides on both left and right shoulder sections of the seat Fig 3:4, of which the seat belt passes through so as to enable the wearer to adjust the cross over sash portion of the sash to the ideal level to which has previously been described.

Both left and right hand side seat belt fasteners / clips are to be linked via a cable or such , so that; when either right or left side clip is released, then both clips dis - engage the seat belt Fig 3:3. Therefore allowing the seat belts to re - coil into their reels, allowing the user full release from the seat.

Floor mounts must be sturdy Fig 2:7 and firmly attached to the vehicles' strengthened floor Fig 1:2, Fig 4:8.

To comply with the creature comforts of interior design the rear - view back - rake section of the seat must be adequately upholstered Fig 3:9.

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The claims defining the invention are as follows:

1. A Cross Your Heart seat belt configuration for the restraint an occupant of a vehicle seat, the seat having a seat base and a back rest, the seat belt configuration comprising two inertia seat belt reels built in the lower rear part of the back rest of the seat respectively on the left and right side of the seat; two anchorage points located on the left and right side of the seat base towards the rear end of the seat base; two seat belts each dispensed from the respective reel with one end of the belt attached to the reel, the other end of the belt attached to the respective anchorage point on the left and right side of the seat base; two fastening clips each mounted above the respective anchorage point; a horizontally adjustable guide on both left and right shoulder sections of the back rest; in use the left seat belt passing over the left shoulder through the left adjustable guide to the right fastening clip and the right seat belt passing over the right shoulder and through the right adjustable guide to the left fastening clip; a link connecting the fastening clips by a cable or similar means, so that when either right or left side fastening clip is released both fastening clips will disengage; the adjustable guides allowing the occupant to adjust the cross over of the left and right seat belts to an ideal level so that the seat belts are crossing over the middle of the occupant's chest.

2. The seat belt configuration of claim 1, wherein the design of the seat belt configuration is manufactured using current manufacturing technologies.

3. The seat belt configuration substantially as herein described with reference to the accompanying drawing Figures 1-4.

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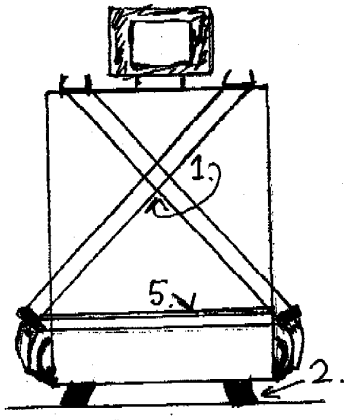

FIG. 1.

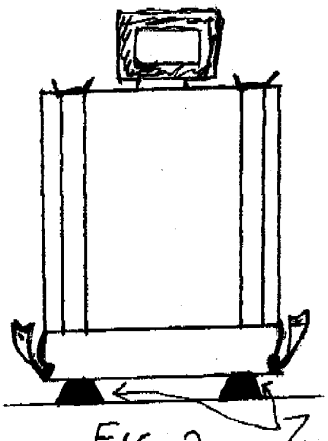

FIG. 2.

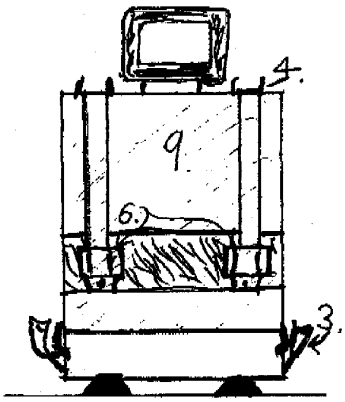

FIG. 3.

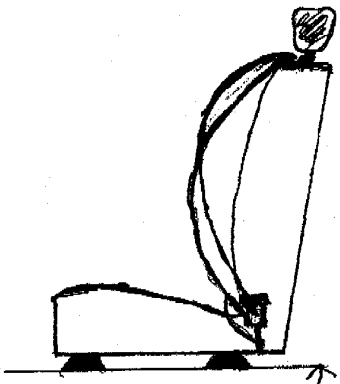

FIG. 4.

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