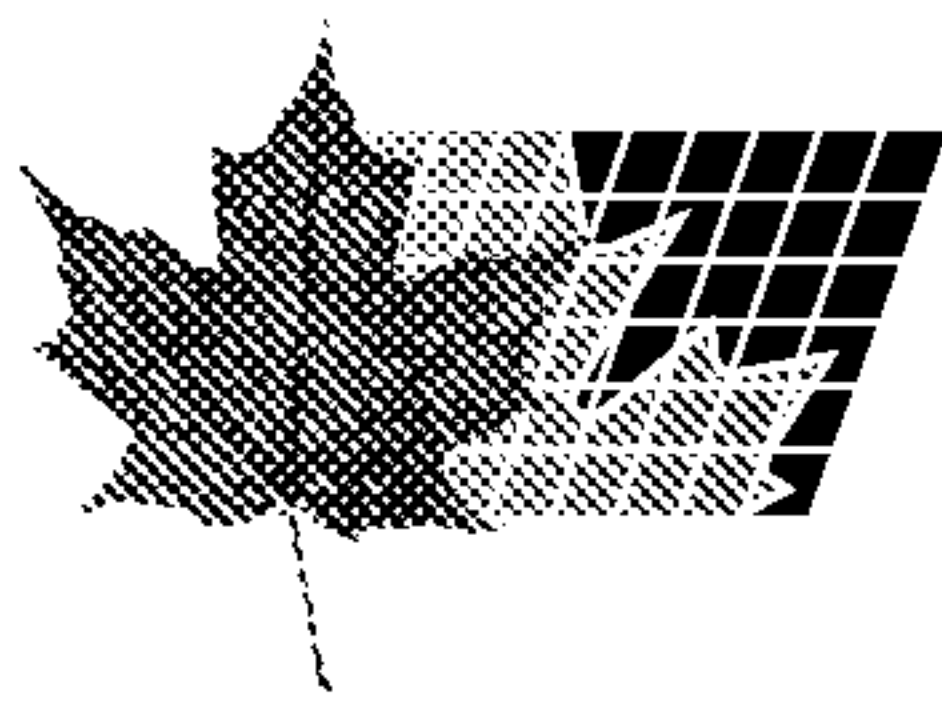




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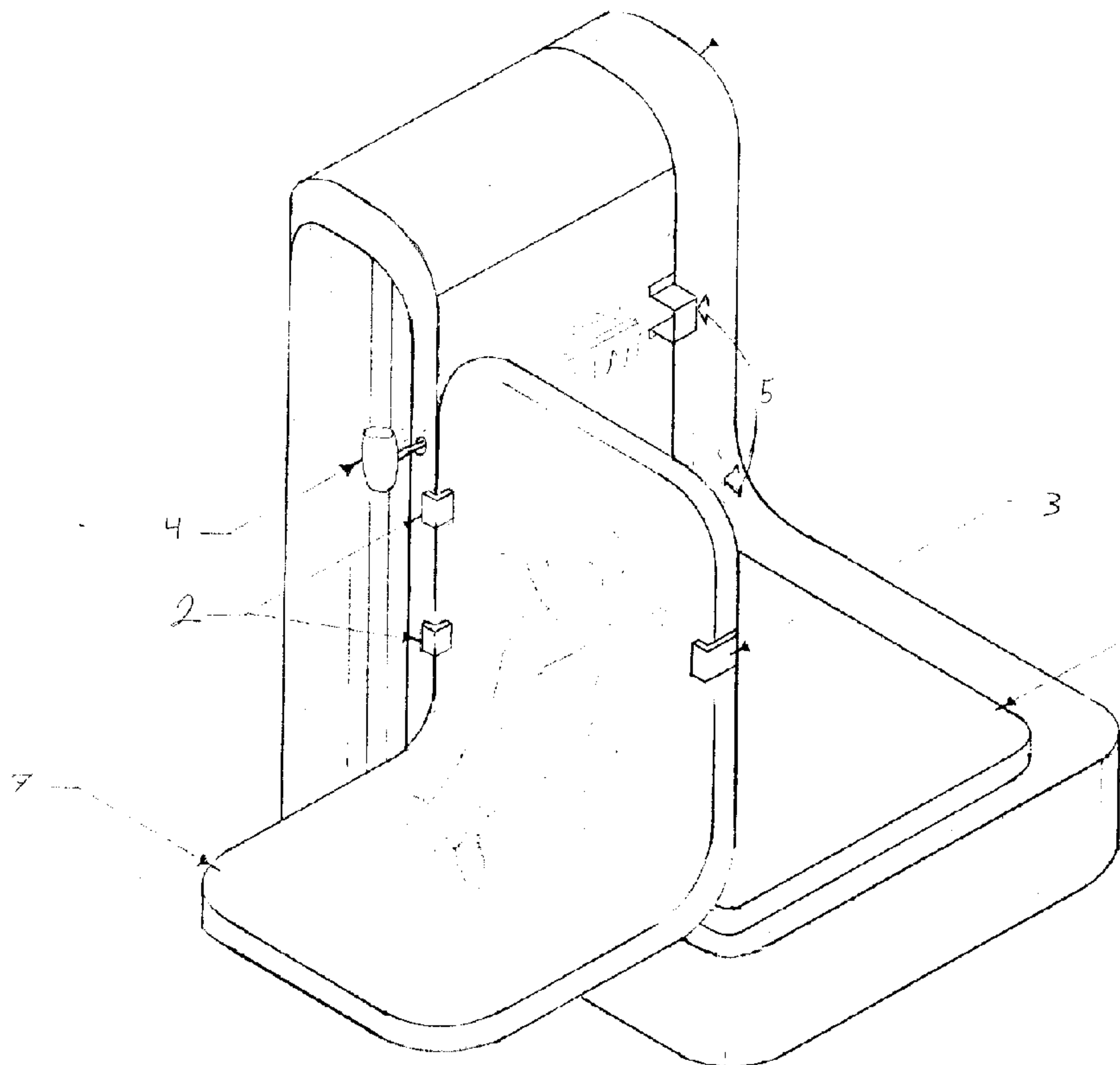
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(54) **SIEGE D'AUTO PIVOTANT POUR ENFANTS**

(54) **SWIVEL CHILD SEAT FOR CAR**



(57) The main frame of the swivel child seat is secured to the car seat in the same manner as conventional child seats. The child seat is attached to one side of the frame by two hinges. These hinges have a locking mechanism. When the seat swings open to full capacity it locks in this open position. That way, while the child is being installed in the seat, the said seat stays fixed and does not rotate. After the child is properly positioned or removed, a slight force is then required to push the seat out of the open position and re-attach it in the original closed position, where it locks until someone pulls a cable-release mechanism to unlock it. The child seat rotates on its hinges towards the open car door. The seat can be unlocked from the side closest to the door. The hinges can be placed on either side of the seat so that it can be used on both sides of the car. The conventional child seat is uncomfortable for parents (or others) to work with: to put the child in or remove. Parents (or others) acquire back pain from bending over at an uncomfortable angle. They tend to become lazy and do the job improperly. The conventional process of inserting the child is also uncomfortable for the child. The advance that this invention has to offer is a swivel vs. a stationary seat. In terms of utility, this new child seat is more convenient and easier to use for both the parents and the child.

ABSTRACT

The main frame of the swivel child seat is secured to the car seat in the same manner as conventional child seats. The child seat is attached to one side of the frame by two hinges. These hinges have a locking mechanism. When the seat swings open to full capacity it locks in this open position. That way, while the child is being installed in the seat, the said seat stays fixed and does not rotate. After the child is properly positioned or removed, a slight force is then required to push the seat out of the open position and re-attach it in the original closed position, where it locks until someone pulls a cable-release mechanism to unlock it. The child seat rotates on its hinges towards the open car door. The seat can be unlocked from the side closest to the door. The hinges can be placed on either side of the seat so that it can be used on both sides of the car. The conventional child seat is uncomfortable for parents (or others) to work with: to put the child in or remove. Parents (or others) acquire back pain from bending over at an uncomfortable angle. They tend to become lazy and do the job improperly. The conventional process of inserting the child is also uncomfortable for the child. The advance that this invention has to offer is a swivel vs. a stationary seat. In terms of utility, this new child seat is more convenient and easier to use for both the parents and the child.

SPECIFICATION

This invention relates to a swivel child seat for cars.

Conventional car seats for babies remain in a fixed position once installed in a car. They do not move, and the person placing the infant in the car or taking him out has to bend over the seat at an awkward angle. This presents difficulties to the said person: potential back sprain and inconvenience. The person is uncomfortably hunched over, trying to position the infant properly.

All these disadvantages can be largely overcome by having a rotating, rather than a fixed, base for the child seat. The metal frame (6) attached to the rear of the child seat is attached as usual to the rear car seat (1). The frame is attached to the child seat on one side by hinges (2), while the other side (farthest from the car door) has a lock (3, 8) which may be unlocked by means of a cable-release mechanism (4). The adult placing the infant in the seat or removing him, controls the lock. As soon as the lock on the child seat is unlocked, the child seat is able to swing out towards the open car door with a minimum amount of effort required on the part of the adult, and where the adult can very easily either place or remove the baby. When the child seat is swung open to its full capacity, it "locks" in open position by means of simple resistance-hinges (2). That is, it does not move or swing back and forth while the infant is being positioned in the child seat or removed from it. The car seat is then rotated back to its closed and locked position by the adult. This invention eliminates the previous inconveniences the adult had to undergo when using conventional child seats.

The enclosed illustration shows the child seat installed in the car, attached to the car seat (1). The seat is shown swung out to open position. The arrow (5) demonstrates how the child seat (7) swings out. "2" refers to the two hinges holding the moveable portion of the swivel seat to the fixed base (6) of the child seat. The hinged side of the swivel seat will be on the side of the car closest to the car door to be used. These hinges have a resistance mechanism (2) that locks the seat into open position while the child is being seated or removed. "8" is the fixed part of the locking mechanism located on the opposite side of the seat as hinges (2). When the seat is pushed back into the original closed position, "3" locks into "8". The seat remains locked until unlocked by means of a cable-release mechanism (4) by the adult removing the child from, or placing the child in, the seat.

CLAIM

Claim 1

"A swivelling child seat for a vehicle comprising :

a seat base having a base seat portion and a base back portion, said seat base held in position on a vehicle seat by vehicle seat belts ;

a child seat having a seat portion and a back portion, and fitted with child restraining straps ;

at least one hinge assembly having one portion fixed to either side of the back portion of the seat base and the other portion fixed to the corresponding side of the back portion of the child seat ; and

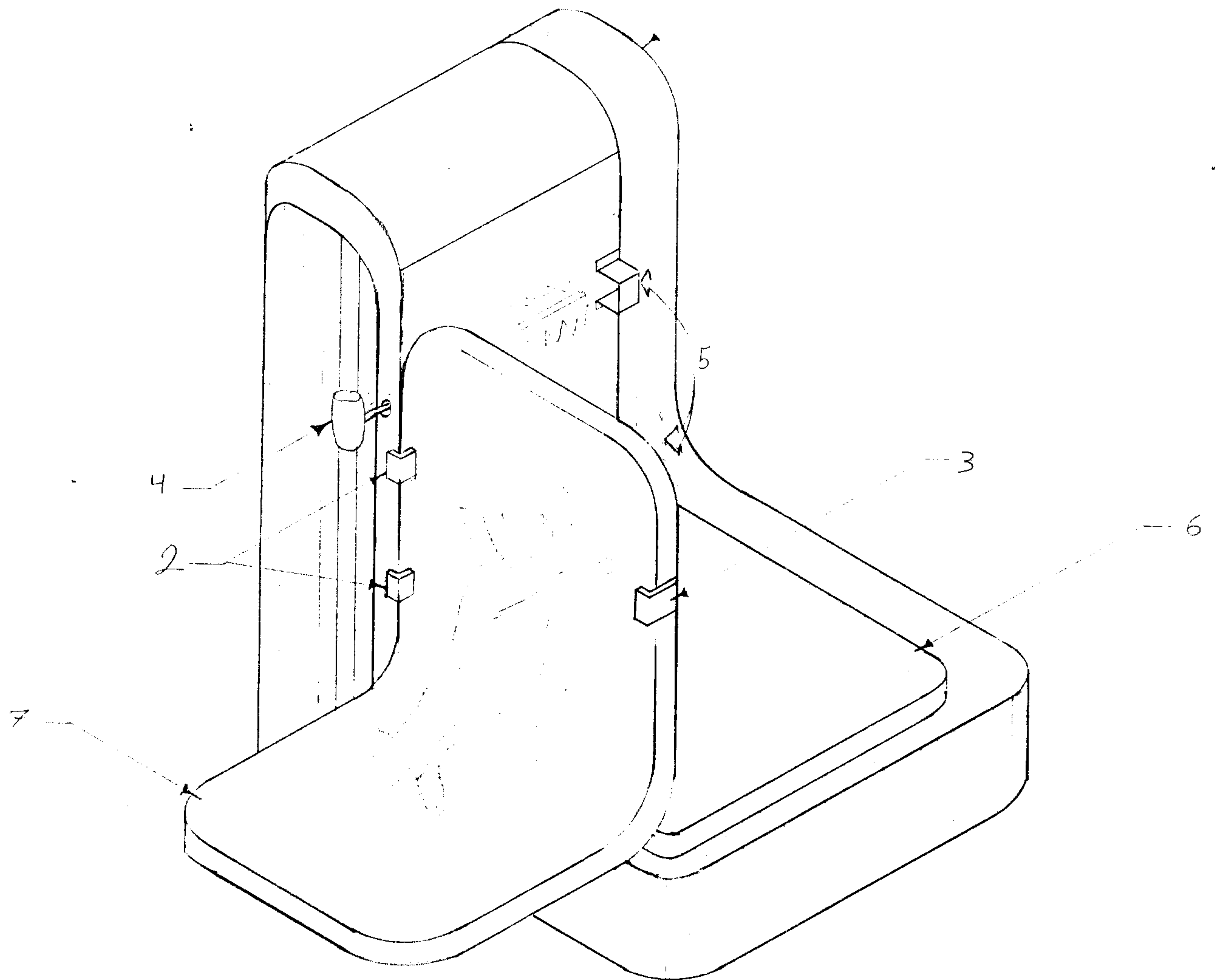
a releasable locking mechanism located on the side opposite the hinge for locking the child seat to the base ; whereby, when the locking mechanism is released, the child seat can swivel about the at least one hinge such that the child seat is facing a vehicle door opening for easy placement or removal of a child on the seat.

Claim 2

A swivelling child seat as in claim 1, wherein the at least one hinge is a resistance type hinge to remain in open position when the child seat is facing the door.

Claim 3

A swivelling child seat as in claim 1, wherein the releasable locking mechanism comprises a cable-release mechanism.



CHILD CAR SEAT