InvenioIP - Technology Details

Institution: University of Alabama

Docket: 07-0020

Title: Child Safety Seat with Emergency Harness Release

Summary: This present invention relates to a automobile safety seat for children between one and four years of age, wherein a simple, easy-to-use emergency release mechanism is utilized to quickly release the restraint straps of a harness system in the event of an emergency. This technology allows a child who is restrained in a child safety seat to be removed quickly and safely from the vehicle after an accident by any person, even those unfamiliar with the child safety seat and its fastening mechanisms. Current child safety seats are designed for protection against impact but do not address the need for quick egress in the event of an imminent threat such as fire, fumes, or potential explosions. This invention maintains the integrity of impact protection and adds an easy-to-use mechanism to allow a child to be quickly evacuated from the vehicle

Applications:
- Safer child safety vehicle seat

Advantages:
- Greater safety in the event that quick evacuation is needed (parents and emergency workers able to release seat quickly, even if front latches are inaccessible
- Easier to use than current child safety seats

State of Development: Proof of concept completed, and an initial prototype has been completed for demonstration purposes.

R and D Required:
- Testing with appropriate regulatory bodies
- Re-tooling/retro-fitting of existing manufacturing operations for the new design

Licensing Potential: UA seeks to develop and commercialize via an exclusive or non-exclusive license agreement and/or sponsored research with a company active in the area.

Patent Status: U.S. Utility Application No. 11/879,984, filed on July 19, 2007. U.S. Provisional Application No. 61/011,024 filed January 14, 2008 for related Intellectual Property Disclosure 08-0004.

Related Publications: None

Files:

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