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(57) Abstract :

An adjustable child safety seat (100) with integrated crash detection sensors (105), automatic harness adjustment actuators (108), a processing unit (106), and a wireless alert module (107) is disclosed. The seat body (101) includes an adjustable headrest (103) and reclining backrest (104), offering comfort and active crash response. The invention improves safety by instantly securing the child and alerting caregivers during collisions.

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