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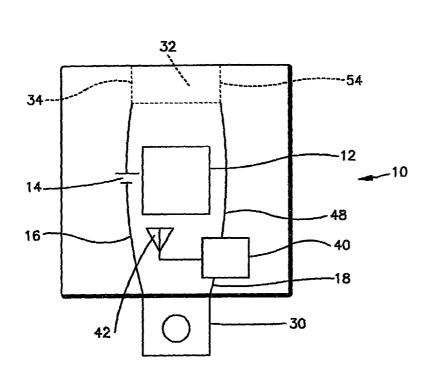
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(54) Title: INFANT SAFETY DEVICE



(57) Abstract: An apparatus (10) is provided for warning when a person such as an infant has been left in an infant seat (60) in a vehicle and the operator of the vehicle has departed from the vehicle. The apparatus includes an occupant detection mechanism (30, 32) for detecting the presence of an occupant within a seat-belted seat located within a vehicle; optionally a mechanism detecting the state of the vehicle's motion; a control unit (40) for generating an alarm signal when the occupant detection mechanism detects the presence of an occupant within the infant seat and an alarm unit (128) for generating an alarm in response to the alarm signal.

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C. DOCUMENTS CONSIDERED TO BE RELEVANT	
Category * Citation of document, with indication, where a	
X,P US 6,489,889 B1 (SMITH) 03 DECEMBER 2002	(03.12.2002), see entire document. 1-15
Y,P	1-15
X,P US 6,535,137 B1 (RYAN) 18 MARCH 2003 (18.0	3.2003), see entire document.
Y,P	1-15
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