The current invention relates to a system and device method, which delivers a needed answer to a situation when an infant or a child shift/changes his or her position when awake or fell asleep. The purpose of the current invention is to offer a variety of solutions of safety seats, beds or mattresses adjustments, whether in an automatic way, semi-automatic or manually, which deliver the right, and healthy, angle for the child (full horizontal).
BACKGROUND OF THE INVENTION

The current invention is at the field of infant and children healthcare, safety and, more specifically, aspires to ease the difficulties of the child during situations where he couldn’t control or help himself, like falling asleep during traveling in the car or in front of the television, his body twisted and it’s sometimes impossible to help him.

It’s a well known among the experts, the parents or others that a child that falls asleep can find himself in some distorted positions, which are neither natural nor comfortable. It’s a well known fact that, in our time and era, the kids spend substantial part of the day in a day care or with a nanny that handle more then one kid at once, and one can find himself sleeping in front of a T.V or in a safety seat in the wrong position for a long time. His head will be leaning down or turn aside on his shoulder, in an unhealthy way.

The describe situation takes place even if the parent or the nanny is solely responsible on one kid! A lot of moms, after giving birth, are mentally and physically depressed, or managing the house or not noticing the infant condition if he is not crying.

A common situation is during a car journey when both parents sit in the front seats and the infant in the back seat. There is no safe way to change the safety seat to the infant needs.

The majority of the situations mentioned deals with kids from infant stage till 8-9 years old, when they are not capable of taking care of themselves and, most of the times, don’t even recognize the problem.

While driving the car, the situation is even more complex. Even if the adult noticed the problem, He can’t handle it without full stop and the ages of the kids can go up to 9-10 years old (depend on the legal age of every state).

After saying that, it is only appropriate to offer an answer to these problems. Offers of manually, semi-automatic or fully automatic devices of changing angles and positions for the adults or for a child sovereign enough to take care of himself.

There’s a foreseeable need for an invention which includes a system or device that shifts and changes the position and angle of the seat, bed or mattress in present time or in future times according to the expectations without the need of being near the device during the position changing. In addition, there’s a need for appropriate solutions for a situations when the kid is old enough and independent.

A possible solution, for the current invention, is the possibility of programming a future time, either mechanically or digitally or electronically way, that in a given time gives an order to change the angle of the device to a wanted position.

Another possible solution, to the current invention, is a mechanic or digital or electric system which enables programming changing the angle and position, both for future time or immediately, by an adult or the child himself.

SUMMARY OF THE INVENTION

The main purpose of the invention is to enable, whether in a safety seat, a mattress or in an infant bed, a future or present plans and orders to angles and positions changes.

The current invention enables a baby or a kid a seat, like moveable seat, that structured to be used both indoors and outdoors, or indoors only or outdoors only, that suitable for angle and position change, between 90 degrees to 180 degrees, according to the child needs. The system manages and remote whether mechanically, digitally or electrically, as part of the whole system or as a wire or wireless remote control.

The control and managing system of the angle and position can be used both in a future orders or in immediate ones, or combination of both orders from 90 degrees position to 180 degrees and vice versa.

The mechanic or electric system that actually enables the positions changing could be a system which influence the front of the infant seat, and by doing so, pushes back the angle of the seat back rest, or a system that changes the angle of the back rest itself, or a system that, simultaneously, the two of them, front and back rest. The system could be an integral part of the seat or an attached part to the seat or a part which the seat attached to.

The forces of the system mentioned above could be from air blowup and emptying system, which change the extent of the surface area, whether if increasing or decreasing it, according to the needed position. The system could be of a motorized cog-wheel which enables, for example, the back rest shift and changing the angles toward horizontal or a sitting angle or any angle between them.

The current invention also takes place when the whole device is controlled with an electric system and power source (as a recharged battery and a car battery). In this case the manual grip pole, function as a steering stick, can contain a wired controller which operates the system. A device that is also electrical and already includes electric energy method optionally could have a light measures, a vocal measures, a whistle, a music capabilities, a vocal recognition of the owner and plenty more options for the convenience and safety of the child.

BRIEF DESCRIPTION OF THE DRAWINGS

The added drawings in this patent request come in order to provide more visual understandings about the invention and are integral part of the request and the invention. The drawings describe different functions of the invention and, added to all the mentioned above, serve the purpose of explaining the principles and ways of operation and not, by any means, suppose to limit the invention solely to them.

Draw no. 1 is a schematic description that shows an example, included in the current invention, of a moveable infant seat with a device in the front part of the seat and optional alternative, or second, system at the back part of the seat.

Draw no. 2 is a schematic description that shows another function of the invention. A moveable infant safety seat that include manage and operation system of the seat and the angle’s diversion of the back seat.

Draw no. 3 is a schematic description that shows another function of the invention. It shows an external connector for an infant safety seat with the other mentioned functions.

Draw no. 4 is another external connector as in draw no. 3 but in a different form and shape.
[0022] Draw no. 5 is a schematic description that introducing another function of the invention as in external coordinator for an infant safety seat, including the possibility of angle's diversion of the seat.

[0023] Draw no. 6 is a schematic description that shows a mechanic system for diversion of a defined part of the seat, including the option of swinging it for the baby's pleasure during the process.

DESCRIPTION OF THE PREFERRED EMBODIMENTS

[0024] Draw no. 1 of the current invention apply an example of a moveable infant and children safety seat 100 including systems 110 and 112 on the front part of the seat and, optionally, system 104 and 106 alternative or extra at the back seat 100 when the front system 110 and 112 enables, at the time when the baby sits in his place 114, to adjust the device to a future time according to our predicted need. On the right time, the front system part 112 will open towards the floor or the flat place of the seat and push the front seat up and, respectively, the back part of the seat will move and come closer to a sleeping angle of an infant. After operating 112 by foot there's an option of the front system 110 will get active and make a secondary push in order to come as close as possible to 180 degrees of the baby and the moveable seat 100. Units 100 or 112 could be operated by foot, or alternatively options that create the same outcome. For example, system units which puff up on demand and increase the surface area and, by doing that, push the seat towards horizontal position and vice versa. The systems located in the back seat 102, which are 104 and 106, could be parallel systems which operates parallel to the front system or as independent systems, and then, while the gravity is towards the back of the seat, opening or closing of the 104 and 106 devices, will allow a change of position as needed.

[0025] Draw no. 2 of the current invention presents other implementation of safety seat 120 include operating and managing system 134 and 132 of the seat and back of seat diverse angle systems. The seat base 122 is in a relative stable position of angle but capable of moving forward and backward relatively to the angle and position changes of the back of seat 124, when the managing system 134 simulate a mechanic managing system that turn as a turning button towards future operating time. When the time arrives, the system, mechanic or electronic, moves the back of seat 124 to the already adjusted angle or formerly programmed and fed in the operate button 134 or other device. Operate system 132 simulate a digital managing system or electric, futuristic or simultaneously when ordered, of direct and change of angle and position states of seat as in 132, 130 and 128, 130, 132 and 136, themselves, could be part of a structure which works like a bellows, that enables at the opening between the surface of the back of the seat 124 to the lower space of part 128, when a full opening will cause a sitting position and the closing of the gap to the minimum, will cause the part 124 come closer to the ground and to a horizontal position of the device 120. Wire remote 136, in the current implementation, is a controlling option of the system and device and, obviously, a managing system by remote control can be also possible under the current invention.

[0026] Draw no. 3 of the current invention presents example 140 which shows external connector 142 for babies and children moveable seat 144, including a possibility of diversion of angle, when the moveable external device 142 includes a diversion programming and timer 146 and connectors 150 and 148, that become possible in the connection between the 142 part and the seat 144 in a way the connectors 150 and 148 has a shortening and lengthening capabilities 152. Extending it, the seat 144 moves toward a "lying down" position and shortening it moves the seat 144 back into sitting position. Needless to say those connectors 150 and 148 are not the only possible ones and they only a suitable example to other connectors, like to a safety belt 152, which exist in almost any type of a moveable infant safety seat.

[0027] Draw no. 4 of the current invention 180 presents external connector 188 for safety seat 182, includes a possibility of seat's angle diversion, when the part 188 includes diversion and timing managing system which enables, with the help of connector 190, that acts as mediator for the device system 192, in a way of pulley block that enables pulling or releasing of connector 190 that attached to the back rest 186.

[0028] Draw no. 5 presents a schematic of another function within the contents of the invention. An external coordinator 200 which includes an option of attaching or placing the safety seat 220 to him, or of using him as a seat itself, and has, at least, two positioning angles, like surface units 212 and 210 and 208 at the back rest of the seat and, respectively, as a possible option, a front seat units like 206, 204, 202, when the 200 device basis is unit 214, that includes parts of programming managing system and operate of blowing up and emptying air of puff up components like samples 212, 210, 208, 206, 204, 202. The purpose is to change the seat angles and positions between sitting positions to lying down positions, optionally with an early programming or planning of the time and wanted angle and at the right time the system will automatically perform the order, or, respectively, as a tool for instant operation of the seat system if the baby falls asleep and we don't want to disturb him by doing things roughly.

[0029] Draw no. 6 is a schematic description of another implementation, within the content of the current invent, that presents a mechanic system for diversion of specific part of the safety seat, includes the possibility of swinging during the process.

1. A moveable safety seat, mattress or bed, which includes a system of operating, managing and adjusting to change the unit position angles. The system will contain the following parts:

A. A possible of angles and back rest position in values of 90 degrees to 180 degrees between the back rest and the seat surface, when
B. The back rest and the surface are two attached parts with the ability of angle changing and are not one pouring together.
C. The system of managing and operating could be one of those: part of the unit structure, a digital system, an electric system, a mechanic manage and operate system, when,
D. The managing and operating system could operates a mechanic or electric or combination between them that moves and changes the unit and, respectively, his parts, when,
E. The whole system method is optional both in wired and wireless remote or with an operating panel built in the unit itself

2. The device, as claimed in section 1, when it operates by electric measures, includes, at least, necessary systems for
electric ignition in a way that the wheels movement will take place at least in some of them in a transmission that will cause, at least, a changing of the back rest angle, and will shift from an electric engine that connect to an energy source.

3. The device should include necessary units for an electric movement of the device and control system of the other operation functions of the electric system, like remote control.

4. The device and the system do not have to be integrated with the unit, but can be independent external parts. When needed, it can plug into the unit.

5. A device stated at claim no. 4, when it includes, at least, two of the setting up of the device: horizontal, vertical and between these two.

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