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(54) Title: FULL-MOTION INTERRUPT SYSTEM

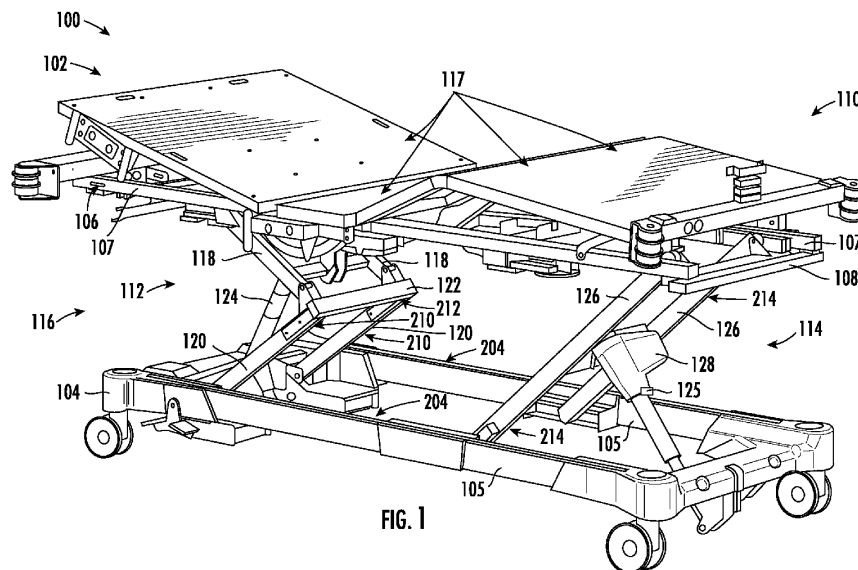


FIG. 1

(57) Abstract: An interrupt system may include a medical bed (100) having an upper frame (106) and a lower frame (104). An interrupt system may include a sensor (200) configured to detect a predetermined force between the upper frame (106) and the lower frame (104), wherein the sensor (200) is configured to stop movement of the upper frame (106) when the predetermined force is detected by the sensor (200). The movement of the upper frame (106) may be reversed after stopping movement the upper frame (106). The sensor may include a membrane strip (220) connected to the medical bed (100). A compressible layer (270) may be positioned between the membrane strip (220) and a cover (250). The sensor may include a hall effect sensor (125) configured to monitor a rotation of one of a shaft and a gear of an actuator (124, 128) connected between the upper frame (106) and lower frame (104).

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