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Berry et al.

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(54) **BACK BRACE WITH AUTOMATIC SENSING AND ADJUSTMENT**

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G08B 21/04	(2006.01)
A61B 5/11	(2006.01)
A61B 5/00	(2006.01)

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USPC 602/19

See application file for complete search history.

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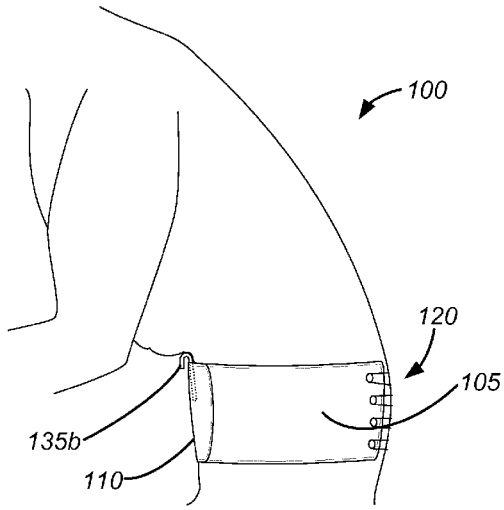
(57) **ABSTRACT**

An improved back brace apparatus employs sensors to automatically change the support provided to the back of a human torso. The sensors can detect the user changing position from a standing position to a bending position and the back brace apparatus automatically responds by increasing the support provided to the back of the user's torso. As the user returns to a standing position, the sensors detect the change and the back brace responds by automatically reducing the support provided to the back of the user's torso.

5 Claims, 14 Drawing Sheets