

DEVICE FOR POSITION AND LUMBAR SPINE CONTROL

P PATENTED TECHNOLOGY



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ABSTRACT

A device to control the position and movement of the lumbar spine has been developed. This device measures the degree of lumbar spine and trunk rotation as well as changes in position or while performing any type of physical activity.

The device is patented and potential partners to license the technology or develop end products based on this technology are sought.

TECHNOLOGY ADVANTAGES AND INNOVATIVE ASPECTS

MAIN ADVANTAGES

- Measuring (by segments) of lumbar spine bend and its changes.
- Information about each segment's contribution to the lumbar spine bend.
- It distinguishes among different actions that could lead to changes in lumbar spine bend.
- Improvement of control when changing inclination and rotation of body trunk.

INNOVATIVE ASPECTS

- Each sensor has an accelerometer and a gyroscope.
- Displays are integrated into a textile band easy to use.
- Apps for mobile devices developed.

MARKET APPLICATIONS

- Health and sports
- Physical therapy
- Fitness / Wellness Industry
- Ergonomics and postural hygiene programmes and clinics
- Health and risk prevention

COLLABORATION SOUGHT

Companies for the following cooperation activities are sought:

- License agreements.
 - Setting up R&D Projects.
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