

MONITORING DEVICE TO PREVENT LUMBAR PAIN

P PATENTED TECHNOLOGY



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ABSTRACT

A research group of the University of Alicante has developed a device to control dynamic stability of lumbar spine. It allows establish a map pressure and warn about critical pressure levels according body movements. A prototype is being developed and soon it will be available for market demonstration.

This technology estimates lumbar pressure levels and gets a map pressures. Also, it has a specific software for data saving and processing, and it is customizable and water proof. It can be used in the following industrial sectors: Physiotherapy and Orthopaedic Technology, Biomedical Engineering and applications for Medicine and Human Health. The research group is looking for companies acquiring this technology for commercial exploitation.

ADVANTAGES AND INNOVATIVE ASPECTS

The most important advantages of the device are:

- Estimation of lumbar pressure levels;
- Map pressures establishment;
- Allows data saving and processing;
- Software is calibrated for every holder;
- Water proof.

The main innovative aspects are:

- Dynamic control of lumbar spine stability, without interfering in daily activities;
- Easy to use;
- Adjustable;
- Measuring by high sensitivity and precision electronic sensors.

MARKET APPLICATIONS

Application sectors for this technology are:

- Therapeutic services and monitoring equipment;
- Diagnostic services and equipment;
- Applications software for medical and health.

Other current and potential domains of application are:

- Pressure monitoring during daily activities;

- Sport resources and gyms;
 - Physical medicine and rehabilitation (hospitals, postural therapy departments);
 - Postural hygiene, ergonomics and risk prevention.
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COLLABORATION SOUGHT

The research group is looking for companies interested in acquiring this technology for its commercial exploitation.

- Type of partner sought: Industries.
 - Specific area of activity of the partner: Health, Sports, Physiotherapy, Orthopaedic.
 - Task to be performed: Technology licensing.
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