FAKULTA BIOMEDICÍNSKÉHO INŽENÝRSTVÍ ČVUT V PRAZE

TECHNOLOGY OFFER

THERAPEUTIC LASER

Invention details

Applied in medical fields, this is a therapeutic laser with analgesic, bio-stimulation, vasodilatation and anti-inflammatory effects. The solution stands out from the market for its advancements in multi-channel therapeutic laser technology, which enable flexible transmission of light using flexible light conductors. The sources of light can differ in output and wavelength, and type of structure. This invention creates conditions that enhance therapeutic effects.

Unique features

- Transmits light of different wavelength and output, based on light-conducting cable technology using optical prisms in a vacuum
- Gathers a wider range of laser light with discrete wavelengths, irrespective of source and output, with significant industrial production applications. It also enables feedback control using information gathered by spectrophotometry
- Flexible light conductors enable lasers to be simultaneously applied to several points on the surface of a patient's body

Application and use

- The therapeutic laser has many medical applications to support healing wounds and skin defects.
- This technology may have great value in skin care.

What are we offering?

We offer a non-exclusive licence for the production and sale of the therapeutic laser.

ORIGINATORS

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INTELLECTUAL PROPERTY

Czech utility model and know-how

OWNER

Czech Technical University in Prague, Faculty of Biomechanical Engineering

TECHNOLOGY LEVEL

Prototype

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