

Romanian sleep and relaxation technology

Summary

Profile type

Technology offer

Company's country

Romania

POD reference

TORO20220406009

Profile status

PUBLISHED

Type of partnership

**Commercial agreement with
technical assistance****Research and development
cooperation agreement**

Targeted countries

• World

Contact Person

[Cristina-Maria Balgaradean](#)

Term of validity

8 Apr 2022**7 Apr 2024**

Last update

27 Mar 2023

General Information

Short summary

A Romanian research team has developed a sleep and relaxation technology that helps achieve a deep, restorative sleep, improves short & long-term memory the natural way and optimizes the physical performance and mental well-being. They would like to conclude commercial agreements with technical assistance and research and development cooperation agreements.

Full description

A research team from Transylvania has over 15 years of experience in advanced software technologies, electronics and electro-mechanical devices.

Considering worldwide statistical data, the average sleep time nowadays is 6.8 hours, meaning that proper sleep has become almost an unattainable luxury. It has been proven by many scientific studies that the lack of sleep negatively affects the quality of life, leading to poor performance, mental health issues and depression.

Thus, following a research study made together with a top Research Laboratory in Switzerland which demonstrates the beneficial effects of the slow oscillatory motion for improving sleep onset, quality, and depth, by using a slow rocking bed, the Romanian research team proposes to improve sleep quality through a smart consumer wellness appliance which combines advanced software technologies, electronics and electro-mechanical devices into a brand new category of smart home appliance.

Their technology applies a highly efficient solution for inducing sleep and relaxation. It applies a slow, oscillating motion to the user's bed (i.e. get rocked to sleep like a baby), using an integrated and programmable motion control system. Rhythmic, wave-like motion restores the balance between activity and rest, day and night, and brings our bodies back to a state of optimal health.

They would like to conclude commercial agreements with technical assistance with International health and care professionals, hospitality and leisure industry companies, furniture manufacturers (beds and chairs) and research and development cooperation agreements with research teams.

Advantages and innovations

The technology - has the following features

- * 4 bed legs - the supplied legs can be attached to most existing beds or sofas;
- * control unit - synchronizes the legs motion, allows customized bed movements and communicates to the Internet;
- * durable design - supports a bed or sofa including the occupants weighing up to 1000 kg / 2200 lbs;
- * fast assembling - no specialist expertise is required for assembling; sleep tracking; built-in motion sensors attach to the mattress and track sleep patterns;
- * quiet system - whisper quiet actuators, proprietary technology;
- * secure data communication - control unit data communication encrypted to the highest standards;
- * low power consumption.

Technical specification or expertise sought

Stage of development

Already on the market

IPR Status

Secret know-how

Sustainable Development goals

• **Goal 3: Good Health and Well-being**

Partner Sought

Expected role of the partner

*Commercial agreements with technical assistance:

International health and care professionals who want to use the product as a therapeutic or complementary mechanism for monitoring and improving sleep in people with illness or disability.

Hospitality and leisure industry companies. By adopting an innovative product like the one proposed by this project, hotels, boarding houses and other accommodation units can adopt positioning strategies as alternatives for wellness and relaxation.

Furniture manufacturers (beds and chairs) who would like to diversify their product range could use the alternative proposed in this project and launch beds and chairs with extra relaxation options.

* Research and development cooperation agreements:

Research teams specialized in furniture, mechanics, healthcare, electronics and the Internet of Things (IoT) in order to further develop the technology.

Type of partnership

Commercial agreement with technical assistance
Research and development cooperation agreement

Type and size of the partner

- **SME 11-49**
- **SME <=10**
- **R&D Institution**
- **SME 50 - 249**

Dissemination

Technology keywords

- **06001013 - Medical Technology / Biomedical Engineering**
- **06001012 - Medical Research**

Market keywords

- **02007016 - Artificial intelligence related software**
- **05003001 - Therapeutic services**
- **02007015 - Integrated software**

Targeted countries

- **World**

Sector groups involved