

SMART PATIENT BED



Description of the Invention

The invention relates to smart patient bed technology that prevents the formation of pressure ulcers, accelerates the healing of existing wounds, and enables patient monitoring through sensors integrated into the bed



Applicant

Hist Endüstriyel
Sağlık Ürünleri A.Ş.



Inventors

Fatih Karakaya
Bilal Karakaya

Country	Application Number	Status
Türkiye	2025/005059	Searching

Advantages

- Thanks to the sensors in the invention, parameters such as pressure, temperature, and humidity are measured and transferred to the bed's movement mechanism. Controlled movements of the bed enable the patient to move synchronously or asynchronously, reducing the risk of pressure ulcer formation.
- During the patient's stay, movement data can be monitored and recorded, and integrated with hospital information systems for digital patient tracking.
- With the sensors embedded in the invention, ultrasonic frequencies can be generated to regulate blood flow, thereby minimizing complications such as blood clots in bedridden patients.
- The smart bed is covered with silver-infused fabric, which positively contributes to the healing process of pressure ulcers.

Market Information

The hospital bed market was valued at USD 4.1 billion in 2024. It is expected to grow at a rate of 4.9% and reach USD 7.1 billion by 2035. The smart patient bed market, which is the subject of the invention, is projected to grow by 7% between 2023 and 2031 and reach USD 957 million.

Target Audience

It is suitable for companies operating under the specified NACE codes, especially businesses that provide long-term patient care.

Areas of Use

The invention is suitable for use in various healthcare institutions such as hospitals, nursing homes, home care services, and rehabilitation centers that provide care for bedridden patients.



Nace Code	Activity
86.10.12	Inpatient hospital services requiring special expertise provided by private health institutions
86.10.13	Inpatient hospital services provided by private health institutions (including private or foundation university hospitals, excluding dentistry, ambulance transport, and medical laboratory testing activities)
86.21.02	General medical practice activities provided by family and community health centers (excluding inpatient hospital services and paramedical activities by midwives, nurses and physiotherapists)

Expectation

The aim is to transfer the technology to the target companies through patent licensing. This technology transfer will be supported by industry-to-industry collaboration projects.

It is eligible for TÜBİTAK's 1702 Patent-Based Technology Transfer Support Call.

Since the customer organization is considered an SME, it will be eligible to reclaim 25%-40% of the licensing fees paid in the event of a technology transfer.

Contact

+90 212 691 60 01
kulucka@entertech.com.tr

