Rogers Limb Support Device

Lead Lankenau Institute for Medical Research Inventor

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Unmet Need

The use of supports for limbs during medical procedures and recovery is common. A wide variety of limb support devices are available on the market, however, none are ideal. Some are bulky and not easily maneuverable. Others are permanently fixed to hospital beds. Other types of limb supports are intricate and expensive, and some can only be used for either arms or legs, but not both.

There is a demonstrated need for a limb-supporting device that is simple to operate, mobile, adjustable, suitable for compact environments and affordable. The Rogers Limb Support fills this need.

It is height- and position-adjustable allowing for any limb to be supported in a wide range of positions. The support's mobile base slides underneath a bed, making the device ideal for compact spaces such as patient rooms. The support features a comfortable cradle that can be adjusted for use on any limb. Additionally, the Rogers Limb Support has a simple design and construction and is easily operated by a single individual, thus reducing healthcare personnel requirements and *reducing the resulting expense when two caregivers would otherwise be required to attend to a patient.*

Opportunity

Due to the lack of versatile limb supports currently on the medical device market, there is an opportunity to deliver a low-cost, highly functional device with the potential to achieve success against its competitors.

An enormous opportunity exists for a device such as the Rogers Limb Support to achieve widespread success in various post-acute care settings, rehabilitation centers, and nursing homes, as well as more limited usage in surgical and home-care settings.

While statistics on the number of limb injuries requiring wound treatment are inconsistent, the numbers of settings where the device can benefit are not: there are over 6,000[1] hospitals, of which 420 are long-term acute-care hospitals, in the U.S. alone. Further, the US has 15,600 nursing homes with 1.7 million licensed beds, occupied by 1.4 million patients.[2] And the global wound-care market is projected to grow at a CAGR of 3% from 2017 to 2025, reaching $22.33 billion USD by 2025.[3]

With no similar devices currently on the market, combined with the relatively low cost of manufacture, the Rogers Limb Support could be readily adopted by a wide range of facilities.

[1] AHA Hospital Statistics, 2020, American Hospital Association.
[2] Centers for Disease Control; January 25, 2019.
[3] Wound Care Market Size, Growth, Opportunity and Forecast to 2025. Kenneth Research, November 2019.

Unique Attributes

Inventors believe the Rogers Limb Support Device offers more utility than any support currently in production. Its features include:

- Height- and position-adjustable
- Mobile base that slides under bed
- Ease of operation
- Can support both arms and legs.

Clinical Applications

The Rogers Limb Support can be used in any environment where supporting a limb is necessary, from hospital and caregiving centers to home use, providing a wide range of clinical applications.

Stage of Development

Conceptual prototype

Intellectual Property

Pending patent: US Provisional Patent has been filed.

Collaboration Opportunity

Seeking licensee for commercial development. Hospital system available for clinical trials.

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