

Leg Brace Support

Published date: Nov. 7, 2018

Technology description

Background

Individuals recovering from knee and leg injuries must wear full leg braces or other knee immobilization devices. The restrictive devices limit a user's ability to perform everyday tasks such as sitting upright in a chair and may actually introduce stresses that can potentially slow the recovery process. Currently, the problem is being addressed through means of extended leg rests on wheelchairs, allowing users to assume a sitting position with less discomfort, however, provides limited mobility.

Technology Summary

Researchers at Purdue University have developed an accessory to a standard leg brace that resolves the issue brace wearers encounter when attempting to sit in upright positions. The value of this device comes from the simplicity in its design. The technology allows for the user to adjust settings for individual comfort and is easily removed.

Application area

Leg braces/knee immobilization devices
Orthopedic brace market

Advantages

Simple design
Increased mobility
Individualized comfort

Institution

[Purdue University](#)

Inventors

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