Non-Confidential Description - PSU Inv. Disc. No. 4091
“Ergonomically Designed Cervical Neck-Stabilization Device”

Field of Invention/Keywords:
Biomedical, Devices, Medical

Inventors:
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Background
Current neck-stabilization devices can be bulky and uncomfortable and can minimize access for visualization and treatment of the neck region.

Invention Description
It has been found that a neck-stabilization device can be simplified, made less obstructive, and more ergonomic. This invention is efficient and comfortable, providing clear advantages over current neck-stabilization devices. This invention is based on a highly flexible “open design concept,” easily amenable to further modification, such as extra cushioning for neck protection and/or customizable size adjustments, which can make this device adjustable for each individual.

The device provides improved neck stabilization and extra support for mandibular regions. This invention also eliminates excess moisture, which could lead to skin breakdown and infections. The design decreases pressure exerted on the cranium, and provides unrestricted access to neck regions for diagnosis and treatments. This further enhances patient safety, and minimizes medical work.

Commercial Applications
The simple design, and “open design concept,” makes this device suitable for large scale manufacture and production. The invention offers excellent opportunities for medical device, emergency care and hospital equipment manufacturers.

Status:
U.S. Provisional Patent Application was filed on 5/21/2015.

Updated 2016-01-20