

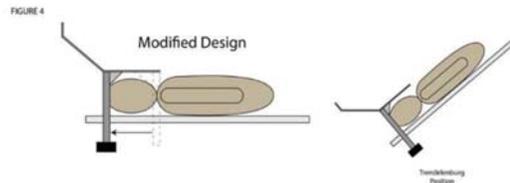
**Non-Confidential Description - PSU Inv. Disc. No. 4023  
"Modified Head Butler"**

**Field of Invention/Keywords:**

head butler, shoulder joint compression, brachial plexus nerve

**Inventors:**

Stephanie Estes



**Background**

The head butler is a mountable shelf that is attached to the main operating room table using stirrup clamps or brackets. It provides an elevated flat surface, which protects the patient's face and chest from inadvertent trauma of robotic arms, instruments, and cameras while also serving as a platform placing instruments. The original head butler and other current mountable shelves are constructed with the metal legs at the proximal end closest to the patient's shoulders. This causes concern for shoulder joint compression, especially in those with increased body mass index, when positioning the patient in steep Trendelenburg position. Therefore, a modified head butler is needed to decrease the risk for shoulder joint compression that can potentially result in brachial plexus nerve injuries.

**Invention Description**

The modified head butler design moves the upright support arms to a more central position below the support platform. This modification allows the device to be attached to the operating room table with the support arms positioned far from the patient's shoulders, thus avoiding contact with the patient. This device is easily mountable on the same brackets as the previously existing head butler. This modified design minimizes the risk for shoulder joint compression thus decreasing the risk of brachial plexus nerve injuries during robotic gynecologic surgery.

**Advantages/Applications**

- Moves support arms to more central position
- Support arms avoid contact with patient.
- Minimizes risk for shoulder joint compression

**Status**

US Design Patent US D710,016 (Issued: 7/29/2014)

**Contact:** David Sadowski  
Sr. Technology Licensing Officer  
The Pennsylvania State University  
Office of Technology Development  
Penn State Hershey Campus

**Phone:** (717) 531-4629  
**Fax:** (717) 531-8684  
**E-mail:** dsadowski@hmc.psu.edu