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[Continued on next page]

(54) **Title:** PRE-POSITIONABLE PROSTHETIC HAND

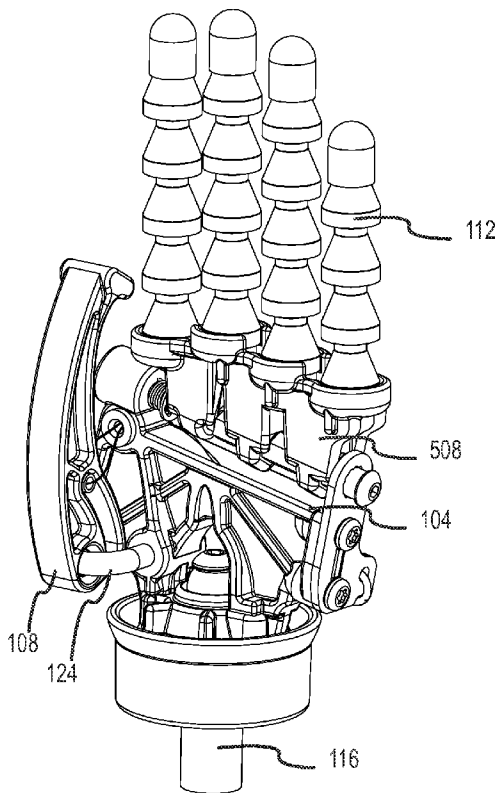


FIG. 10A

(57) **Abstract:** The present invention is directed to a pre-positionable prosthetic hand, including one or more pre-positionable joints. Pre-positionable joints in accordance with embodiments of the present invention include a multi-axial thumb joint, a metacarpal-phalangeal joint and a wrist joint. Additionally, the present invention may include a number of pre-positionable phalanges or fingers having a segmented construction, which allows them to be placed in various positions. The present invention may be used in connection with a pentadactyl glove and may be positioned in such gripping positions as: a key or lateral grip, a hook grip, a cylindrical grip, a spherical grip and a tip-pinch grip.

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| B FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC(8) A61F 2/54, A61F 2/68 (2008 04) USPC 623/64 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched USPC 623/57, 63, 65, 66 1 | | | | | | | | | | | | | | | | | | | |
| Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Electronic Databases Searched PubWEST, Google, Google Scholar, Google Patents Search Terms prosthetic, prosthesis, hand, phalangeal, fingerS, wrist, angle, angular, thumb, rotat\$, slid\$, positions, lockS, U-bolt, U, bolt, axle, spring, bias\$, track, slot, curve\$, arcuate | | | | | | | | | | | | | | | | | | | |
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