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(54) **SYSTEM AND METHOD TO CHANGE A CONTACT POINT OF THE MUSCULAR-SKELETAL SYSTEM**

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See application file for complete search history.

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(57) **ABSTRACT**

A system and method for adjusting a contact point of a joint is disclosed. The system comprises a prosthetic component having sensors therein and a remote system to receive and display sensor data. A plurality of sensors of the prosthetic component provide data related to load magnitude and position of load applied to a surface of the prosthetic component. The prosthetic component further includes one or sensors that provide position, rotation, and tilt data. Adjustment of the contact point of the prosthetic component can be performed by repositioning the prosthetic component relative to a bone to which it is coupled. For example, a prosthetic component can be pinned to the bone allowing rotation of the prosthetic component relative to the bone in-situ. A remote system receives sensor data from the prosthetic component allowing viewing of the load magnitude, position of load, and rotation of the prosthetic component.

20 Claims, 60 Drawing Sheets

