

## Wearable Ground Reaction Force Foot Sensor

### **Disclosure Number**

201202777

### **Technology Summary**

The invention relates to force measurement and more specifically to a wearable force measurement device for human gait, rehabilitation and footwear design. A wearable ground reaction force sensor that mounts on the bottom of a human shoe has been developed that is very thin and lightweight. The sensor measures the forces and moments generated between the foot and ground during normal activities like walking, running and jumping. The battery powered sensor attaches to a shoe or boot with simple strap bindings and is environmentally sealed. Force and moment data is transmitted from the sensor via a wireless interface. The sensor can be used for human gait analysis, rehabilitation and footwear design.

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