



(19) **United States**

(12) **Patent Application Publication** (10) **Pub. No.: US 2004/0199232 A1**

Wallace et al.

(43) **Pub. Date: Oct. 7, 2004**

(54) **FEEDBACK DEVICE HAVING ELECTRICALLY CONDUCTIVE FABRIC**

(86) PCT No.: **PCT/AU02/01074**

(76) Inventors: **Gordon George Wallace**, New South Wales (AU); **Peter Charles Innis**, New South Wales (AU); **Julie Robyn Steele**, New South Wales (AU); **Dezhi Zhou**, New South Wales (AU); **Geoffrey Maxwell Spinks**, New South Wales (AU)

(30) **Foreign Application Priority Data**

Aug. 10, 2001 (AU)..... PR 6944

Publication Classification

(51) **Int. Cl.⁷** **A61N 1/04**

(52) **U.S. Cl.** **607/115**

Correspondence Address:
WOLF GREENFIELD & SACKS, PC
FEDERAL RESERVE PLAZA
600 ATLANTIC AVENUE
BOSTON, MA 02210-2211 (US)

(57) **ABSTRACT**

A feedback device for detecting a mechanical input and providing a feedback indication. For example, a wearable biomechanical feedback device that has an electrically conductive fabric sensor that can be closely fitted to a limb. Movement of the limb causes strain on the fabric sensor which alters its electrical impedance and triggers the feedback indication.

(21) Appl. No.: **10/486,481**

(22) PCT Filed: **Aug. 9, 2002**

