



(19) **United States**

(12) **Patent Application Publication** (10) **Pub. No.: US 2003/0037966 A1**
Sandbach (43) **Pub. Date: Feb. 27, 2003**

(54) **DETECTOR CONSTRUCTED FROM FABRIC INCLUDING TWO LAYERS CONSTRUCTED AS A SINGLE COMPOSITE FABRIC STRUCTURE**

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(21) Appl. No.: **10/232,361**

(22) Filed: **Sep. 3, 2002**

Related U.S. Application Data

(62) Division of application No. 09/907,806, filed on Jul. 19, 2001, now Pat. No. 6,501,465, which is a division of application No. 09/298,172, filed on Apr. 23, 1999, now Pat. No. 6,369,804.

(30) **Foreign Application Priority Data**

Sep. 26, 1998	(GB)	9820902.6
Sep. 26, 1998	(GB)	9820905.9
Sep. 26, 1998	(GB)	9820906.7
Sep. 26, 1998	(GB)	9820908.3
Sep. 26, 1998	(GB)	9820909.1
Sep. 26, 1998	(GB)	9820910.9

Publication Classification

(51) Int. Cl. ⁷	G06K 11/16
(52) U.S. Cl.	178/18.05

(57) **ABSTRACT**

A position detector is constructed from fabric having electrically conductive elements incorporated therein. It includes at least a first electrically conductive plane and a second electrically conductive plane, each conductive plane having at least two respectively associated electrical connections attached thereto. An electric potential is applied across at least one of the planes to determine the position of a mechanical interaction. A second electrical property is also determined to identify additional properties of the mechanical interactions.

