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(54) **DETECTOR CONSTRUCTED FROM FABRIC**

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(75) **Inventor: David L. Sandbach, London (GB)**

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Correspondence Address:

**NIXON & VANDERHYE P.C.**  
**8th Floor**  
**1100 North Glebe Road**  
**Arlington, VA 22201-4714 (US)**

(57) **ABSTRACT**

(73) **Assignee: Eleksen Limited**

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A position sensor (101) is arranged to detect the position of a mechanical interaction, such as the application of manual pressure. A first fabric layer (201) has electrically conductive fibers machined therein to provide a first conductive outer layer allowing conduction in all directions along the layer. A second fabric layer (202) has electrically conductive fibers machined therein to provide a second conductive outer layer allowing conduction in all directions along the layer. A central layer (203) is disposed between the first outer layer (201) and the second outer layer (202). The central layer (203) includes conductive elements. A first insulating separating element (204) is disposed between the first conductive outer layer and the conducting elements. A second insulating separating element (205) is disposed between the second conductive outer layer and the conducting elements. The conducting elements provide a conductive path between the first conducting outer layer and the second conducting outer layer at the position of a mechanical interaction.

**Related U.S. Application Data**

(60) Division of application No. 09/744,155, filed on Jan. 22, 2001, now Pat. No. 6,452,479, filed as 371 of international application No. PCT/GB00/01550, filed on May 4, 2000, which is a continuation-in-part of application No. 09/315,139, filed on May 20, 1999, now abandoned.

