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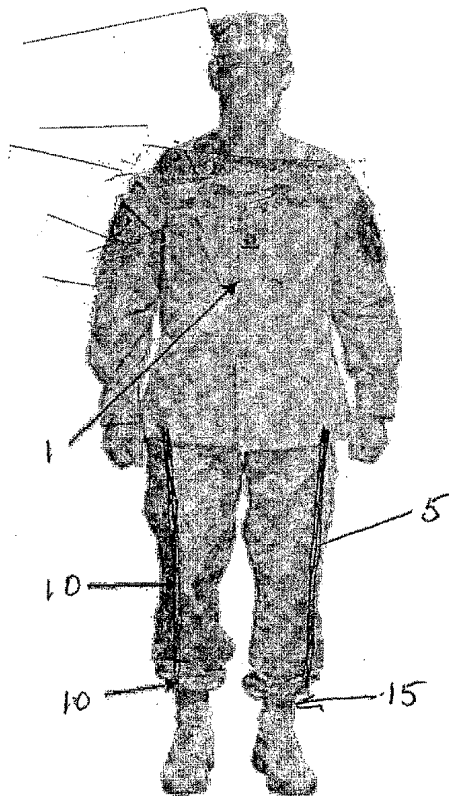


FIG. 1

(57) Abstract: The invention includes fabrics that have been dyed or finished with a dye that contains a conductive mixture of conductive organic materials, inorganic materials, metals, metal oxides, carbon and carbon nanotubes or combinations or mixtures thereof. The dye is used to finish a fabric such that it is conductive. These fabrics are useful in shielding law enforcement personnel from energy weapons discharge and in providing an electrostatic medium for personnel that work with static sensitive products. The fabrics, when appropriately grounded, dissipate the emitted charge and transmit it to ground. Additionally, the apparel has high wear resistance and is both thermally and electrically conductive yet is comfortable to wear.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 06/04190

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - H01B 1/12 (2007.01)

USPC - 252/500

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

USPC - 252/500

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC - 252/500 and all relevant classifications (text search, see terms below)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

PubWEST(USPT,PGPB,EPAB,JPAB); DialogPRO(Engineering); Google Scholar

Search Terms: antistatic fabric, dye, carbon, metal oxide, metal, solvent, water, acetone

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ----- Y	US 2004/0053552 A1 (Child et al.) 18 March 2004 (18.03.2004), entire document especially para [0024]-[0029]	1-25 ----- 26-30
Y	US 2003/0203035 A1 (Hasan et al.) 30 October 2003 (30.10.2003), para [0013]	26-30

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"A" document defining the general state of the art which is not considered to be of particular relevance

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