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(54) Title: ELECTROSTATIC CHARGE APPLICATOR, THE ELECTROSTATIC CHARGE APPLICATOR HAVING AN ACCUMULATING MEMBER AND AN APPLICATION MEMBER AND A SYSTEM FOR ELECTROSTATICALLY SUPPORTING AN OBJECT

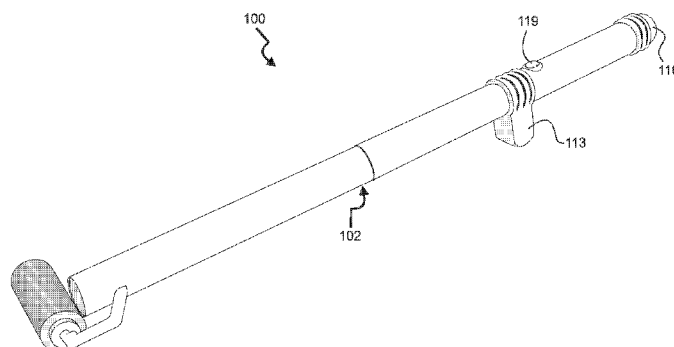


Fig. 1

(57) Abstract: There is provided an electrostatic support applicator, which comprises a body including: a first body portion and a second body portion; the first body portion including an electrostatic generating sub-assembly; the second body portion being implemented as an accumulating member for accumulating electrostatic charge; and an application member mounted onto said accumulating member and spaced away from said accumulating member by a separating distance 'd', said separating distance 'd' being within an electric field of said accumulating member such that said application member gets charged from said accumulating member, when in use, by means of corona discharge.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 12/27358

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - B29C 63/00; B29C 65/02; B44C 5/02 (2012.01)

USPC - 156/71; 156/273.1; 310/309

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)

IPC(8) - B29C 63/00; B29C 65/02; B44C 5/02 (2012.01)

USPC - 156/71; 156/273.1; 310/309

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC - 118/620, 239/690, 427/458, 361/225,230, 15/1.52, 310/309 (text search - see terms below)

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

DialogWeb (US Patents), PatentScope; PubWEST (USPT,PGPB,EPAB,JPAB); Google Scholar

Search terms Used: Electrostatic Van de Graaff Drum Roller Soft Deformable Foam Handle Handheld Staic Electric Charge Adhere
Stick Support Cling Poster Decoration

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 7,815,484 B2 (KRIMAN et al.) 19 October 2010 (19.10.2010), Fig. 1, Fig. 11, col 2 ln 64-65, col 4 ln 5-7, col 5 ln 13, col 5 ln 25-36, col 6 ln 32	1-19
Y	US 2,834,132 A (TAYLOR et al.) 13 May 1958 (13.05.1958), Fig. 1, Fig. 3, col 3 ln 53	1-20
Y	US 4,601,963 B1 (TAKAHASHI et al.) 22 July 1986 (22.07.1986), Fig. 1, Fig. 9 item 13	1-20
Y	US 4,372,798 B1 (DALTON) 08 February 1983 (08.02.1983), Fig. 1 item 19	7
Y	US 4,120,015 B1 (HALLER) 10 October 1978 (10.10.1978), Fig. 1 item 18, 22, 62	8-14, 20
Y	US 4,457,256 A (KISLER et al.) 03 July 1984 (03.07.1984), entire document	1-20

☐ Further documents are listed in the continuation of Box C.

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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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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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