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(54) Title: METHODS AND APPARATUS FOR REDUCING COUNT OF INFECTIOUS AGENTS IN INTRAVENOUS ACCESS SYSTEMS

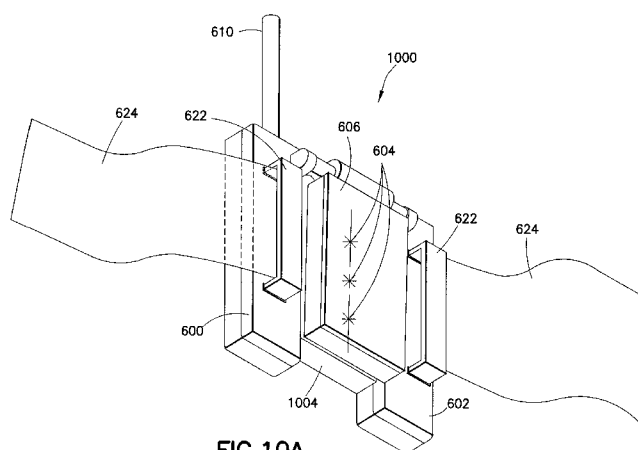


FIG. 10A

(57) Abstract: An apparatus for preventing infection at a catheter insertion site. The apparatus has a U-shaped housing comprising a cross-bar and a pair of arms extending from said cross-bar, and light-emitting elements for irradiating a catheter insertion site with light having wavelengths in an anti-microbial range. The U-shaped housing has a diagonal surface from which one or more of the light-emitting elements extend, and the light-emitting elements are positioned such that they emit light in a direction below the housing while operational. The device may be affixed over a transparent dressing overlying the catheter entry point. The device may be affixed to the catheter insertion site using an adhesive or fastening band, or through other methods. The light sources may be positioned such that light from the light sources overlaps at one or more areas on the skin, especially the catheter entry point.



INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB2012/001898

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A61N 5/06 (2013.01)

USPC - 607/88

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) - A61L 2/26; A61M 25/02; A61N 5/06 (2013.01)

USPC - 604/20; 606/2, 9, 13; 607/80, 88, 94

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
CPC Class/Subclass(es): A61M 25/00, 2025/0019

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

MicroPatent, Google Patents

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2004/0034398 A1 (ECKHARDT et al) 19 February 2004 (19.02.2004) entire document	20, 22, 25, 26
Y		1-19, 21, 23, 24
Y	US 7,517,101 B2 (TOBIN) 14 April 2009 (14.04.2009) entire document	1-5, 6-19, 21
Y	US 2006/0207267 A1 (ERDMAN) 21 September 2006 (21.09.2006) entire document	5, 23
Y	US 2003/0221687 A1 (KAIGLER) 04 December 2003 (04.12.2003) entire document	24
Y	US 7,116,554 B2 (LEE et al) 03 October 2006 (03.10.2006) entire document	18, 19

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

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