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(54) Title: SURGICAL IMAGING DEVICE

(57) Abstract: A surgical imaging device includes at least one light source for illuminating an object, at least two image sensors configured to generate image data corresponding to the object in the form of an image frame, and a video processor configured to receive from each image sensor the image data corresponding to the image frames and to process the image data so as to generate a composite image. The video processor may be configured to normalize, stabilize, orient and/or stitch the image data received from each image sensor so as to generate the composite image. Preferably, the video processor stitches the image data received from each image sensor by processing a portion of image data received from one image sensor that overlaps with a portion of image data received from another image sensor. Alternatively, the surgical device may be, e.g., a circular stapler, that includes a first part, e.g., a DLU portion, having an image sensor a second part, e.g., an anvil portion, that is moveable relative to the first @0rt. The second @0rt includes an arrangement, e.g., a bore extending therethrough, for conveying the image to the image sensor. The arrangement enables the image to be received by the image sensor without removing the surgical device from the surgical site.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
 IPC: **A61B 6/00(2006.01)**

USPC: 600/478
 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)
 U.S. : 600/478

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2002/0161282 A1 (FULGHUM) 31 October 2002 (31.10.2002), abstract, Paragraph's 11, 18, 25, 27, 32, 35, 37, 46	1-103
Y	US 2002/0161280 A1 (CHATENEVER et al) 31 October 2002 (31.10.2002), title, abstract, Paragraphs 2, 15, 45, 51, 56, 57	1-103

Further documents are listed in the continuation of Box C. See patent family annex.

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