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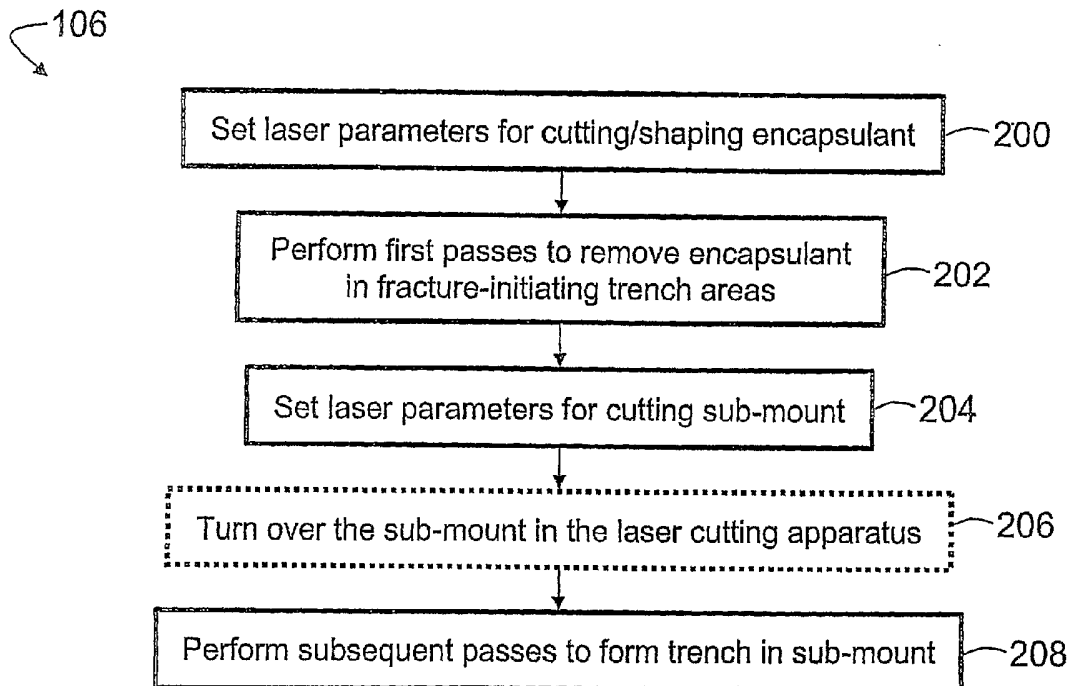
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(54) Title: LASER SEPARATION OF ENCAPSULATED SUBMOUNT



(57) Abstract: In a light emitting package fabrication process, a plurality of light emitting chips (10) are attached on a sub-mount wafer (14). The attached light emitting chips (10) are encapsulated. Fracture-initiating trenches (30, 32) are laser cut into the sub-mount wafer (14) between the attached light emitting chips (10) using a laser. The sub-mount wafer (14) is fractured along the fracture initiating trenches (30, 32).

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B. FIELDS SEARCHED  
 Minimum documentation searched (classification system followed by classification symbols)  
 U.S. : 438/29, 57, 64, 69, 127, 463

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	JP 2002-270901 A ( (Citizen Electronics Co LTD) 20 September 2002 (20.09.2002), Figures 7 and 10	1-29
y	US 6,413,839 B1 (Brown et al.) 02 July 2002 (02.07.2002), Summary, Figures 1, 3, 4, column 3, lines 43-61, column 4, lines 17- column 6, line 21; Table 1.	1-29

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

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"P" document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family

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