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[Continued on next page]

(54) Title: MULTI-PHOTON EXPOSURE SYSTEM

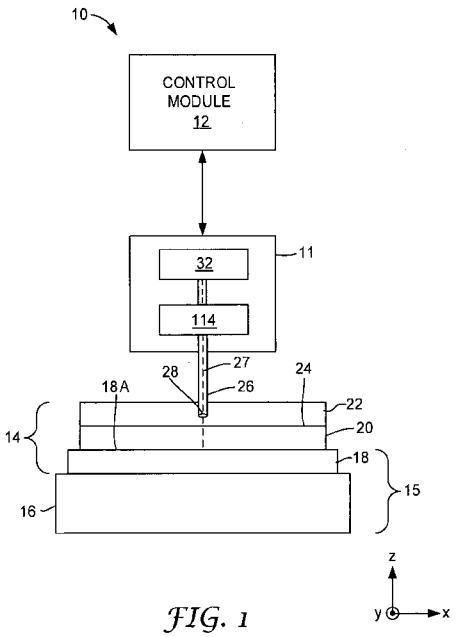


FIG. 1

(57) Abstract: An exposure system includes a light source emitting a beam along an optical axis that is capable of inducing a multi-photon reaction in a resin. The exposure system further includes a resin undergoing multiphoton reaction, as well as an automated system including a monitor that measures at least one property of the beam selected from power, pulse length, shape, divergence, or position in a plane normal to the optical axis. The monitor generates at least one signal indicative of the property of the beam, and a sub-system adjusts the beam in response to the signal from the monitor.

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OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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B. FIELDS SEARCHED

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IPC : G03F

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

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eKIPASS(KIPO internal), PAJ, USP, USAPP

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2006-0046156 A1 (AMAKO et al.) 02 March 2006 See the whole document	1-35
A	WO 2001-096952 A2 (3M INNOVATIVE PROPERTIES Co.) 20 December 2001 See the whole document	1-35
A	WO 2001-096958 A2 (3M INNOVATIVE PROPERTIES Co.) 20 December 2001 See the whole document	1-35
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A	WO 2001-096915 A2 (3M INNOVATIVE PROPERTIES Co.) 20 December 2001 See the whole document	1-35

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

☒ See patent family annex.

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