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(54) Title: OPTOELECTRONIC MODULES HAVING A SILICON SUBSTRATE, AND FABRICATION METHODS FOR SUCH MODULES

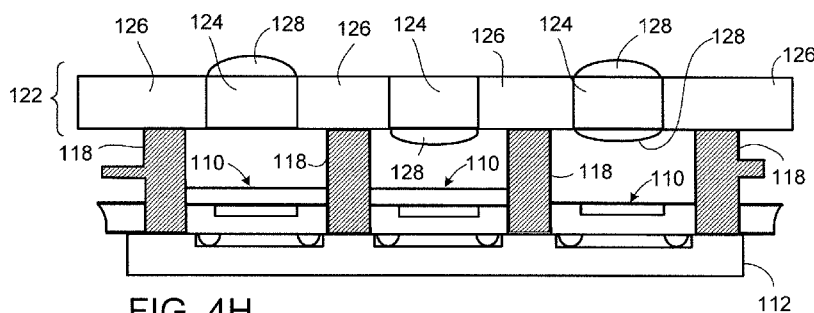


FIG. 4H

(57) Abstract: Optoelectronic modules include a silicon substrate in which or on which there is an optoelectronic device. An optics assembly is disposed over the optoelectronic device, and a spacer separates the silicon substrate from the optics assembly. Methods of fabricating such modules also are described.