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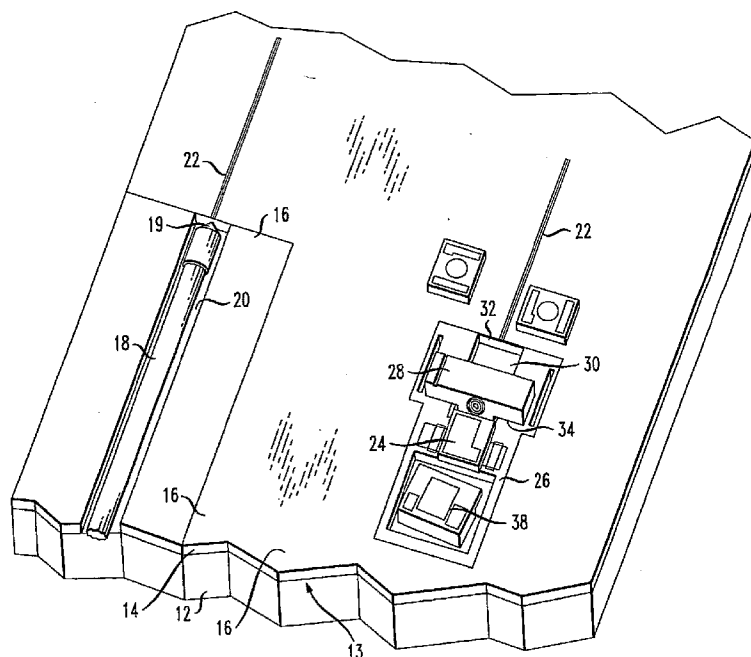
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(54) Title: WIDEBAND OPTICAL COUPLING INTO THIN SOI CMOS PHOTONIC INTEGRATED CIRCUIT



(57) Abstract: An arrangement for providing optical coupling into and out of a relatively thin silicon waveguide formed in the SOI layer of an SOI structure includes a lensing element and a defined reference surface within the SOI structure for providing optical coupling in an efficient manner. The input to the waveguide may come from an optical fiber or an optical transmitting device (laser). A similar coupling arrangement may be used between a thin silicon waveguide and an output fiber (either single mode fiber or multimode fiber).

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