



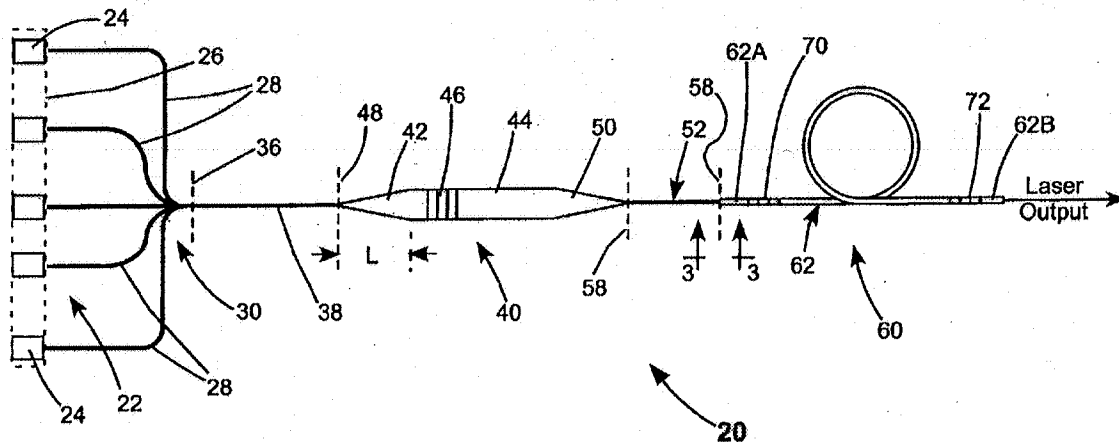
US 20050207454A1

(19) **United States**(12) **Patent Application Publication**
Starodoumov et al.(10) **Pub. No.: US 2005/0207454 A1**(43) **Pub. Date: Sep. 22, 2005**(54) **WAVELENGTH STABILIZED DIODE-LASER
ARRAY**(52) **U.S. Cl. 372/4; 372/5**(76) **Inventors: Andrei Starodoumov, Cupertino, CA
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(21) **Appl. No.: 10/802,616**(22) **Filed: Mar. 16, 2004****Publication Classification**(51) **Int. Cl.⁷ H01S 3/30**(57) **ABSTRACT**

A fiber laser including doped-core fiber having inner and outer cladding is optically pumped by plurality of diode-lasers. Light emitted by the diode-lasers is coupled into a single multimode optical fiber. Light from the multimode optical fiber is directed to a wavelength selective reflecting device that is partially reflective in a narrow reflection band about a peak reflection wavelength. A portion of the light having the peak reflection wavelength is reflected from the wavelength selective reflecting device back along the multimode optical fiber and back into the plurality of diode-lasers. This locks the emitting wavelength of the light emitted from each of the diode-lasers to the peak reflection wavelength. Light at the emitting wavelength that is not reflected from the wavelength selective reflective device is coupled into the inner cladding of the doped-core fiber for optically pumping the fiber laser.



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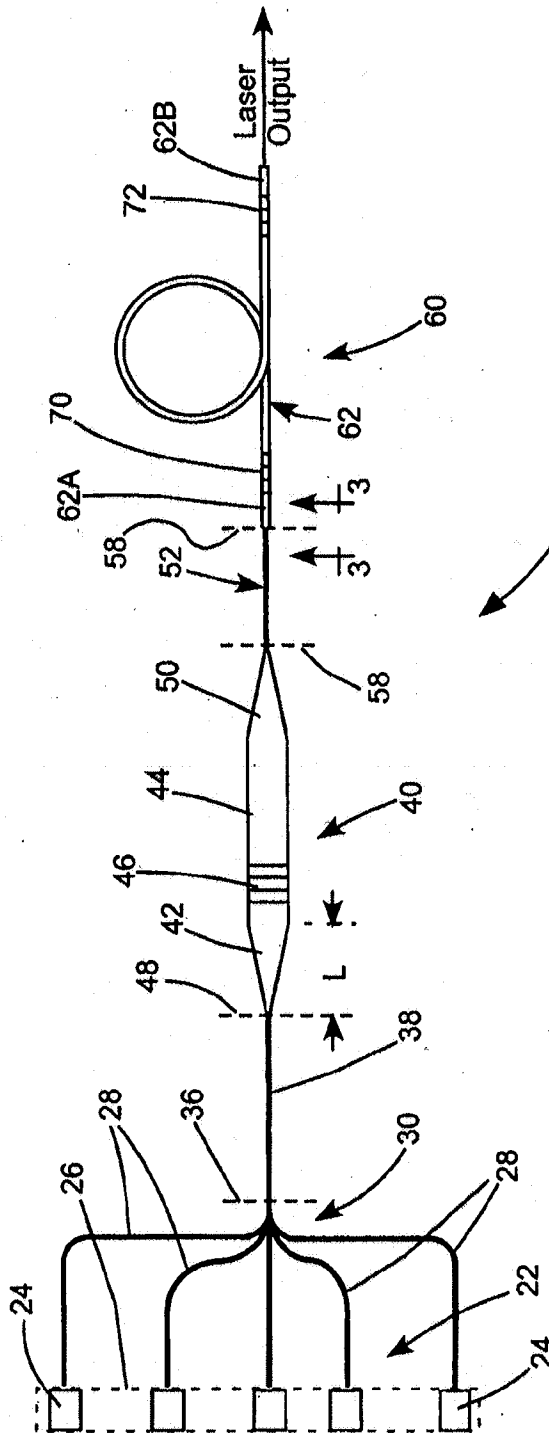


FIG. 1

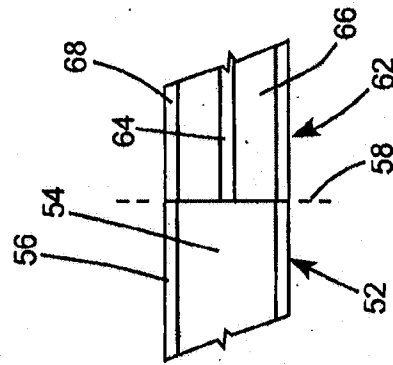


FIG. 3

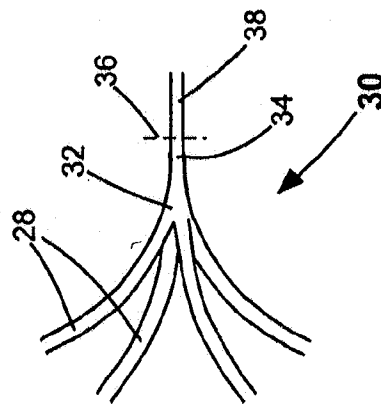


FIG. 2

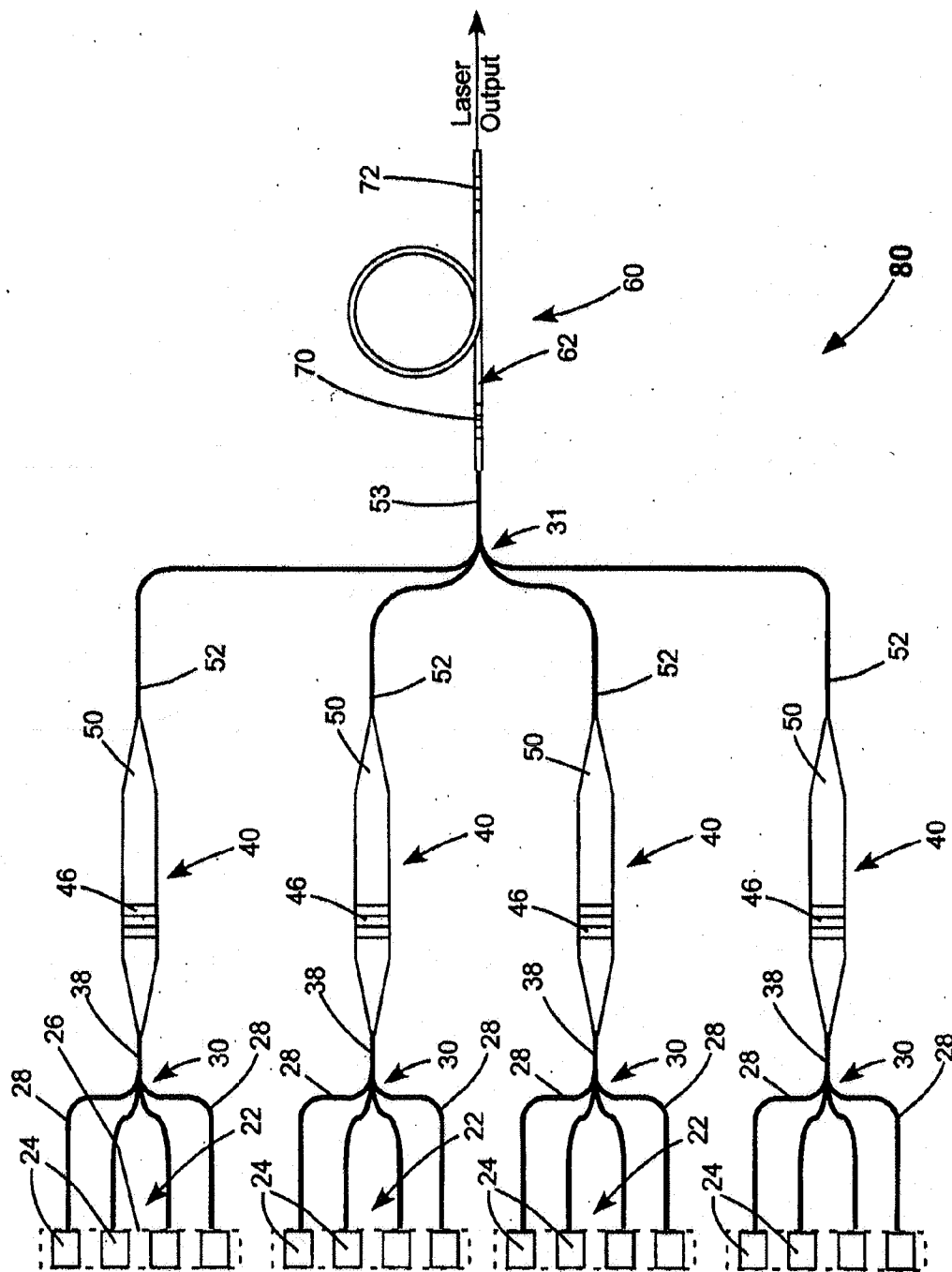
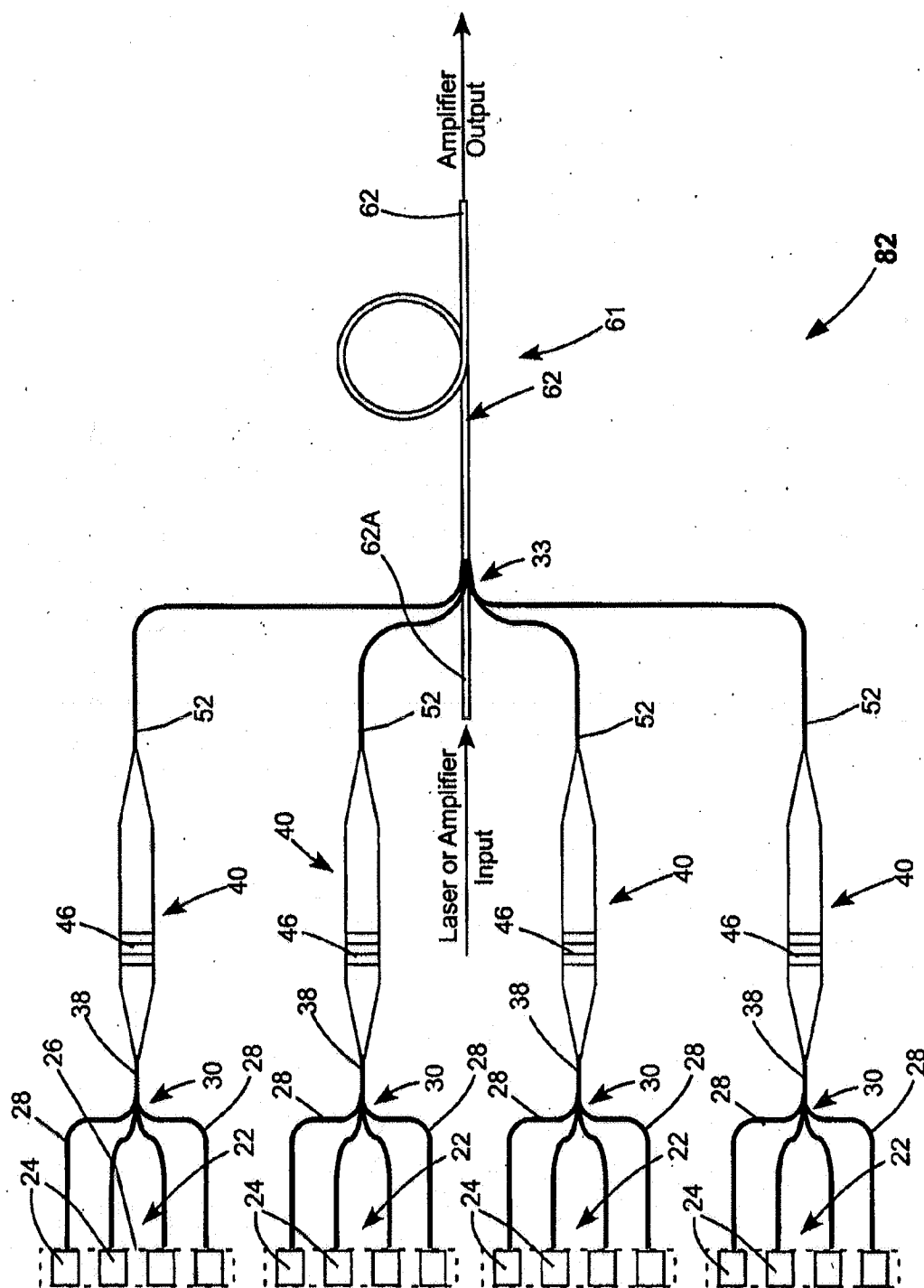
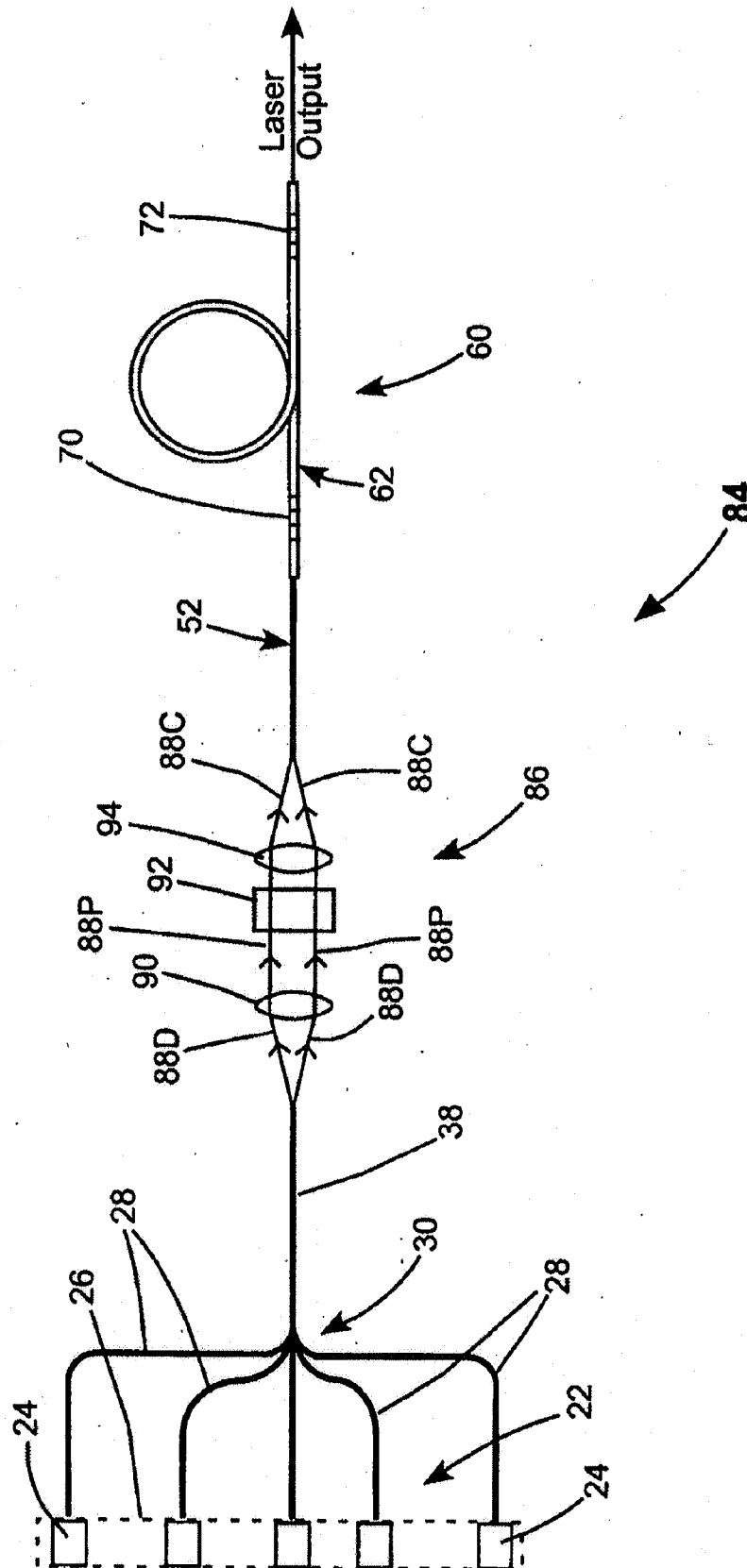


FIG. 4





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