

(12) United States Patent
Raj et al.

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(54) **OPTICAL SERIAL LINK**

(75) Inventors: **Kannan Raj**, Chandler, AZ (US);
Werner Metz, Chandler, AZ (US)

(73) Assignee: **Intel Corporation**, Santa Clara, CA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 219 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **09/690,548**

(22) Filed: **Oct. 17, 2000**

(51) **Int. Cl.⁷** **H04B 10/00**

(52) **U.S. Cl.** **359/152; 359/173; 359/291**

(58) **Field of Search** 359/152, 127,
 359/129, 130, 173, 291

(56) **References Cited**

U.S. PATENT DOCUMENTS

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* cited by examiner

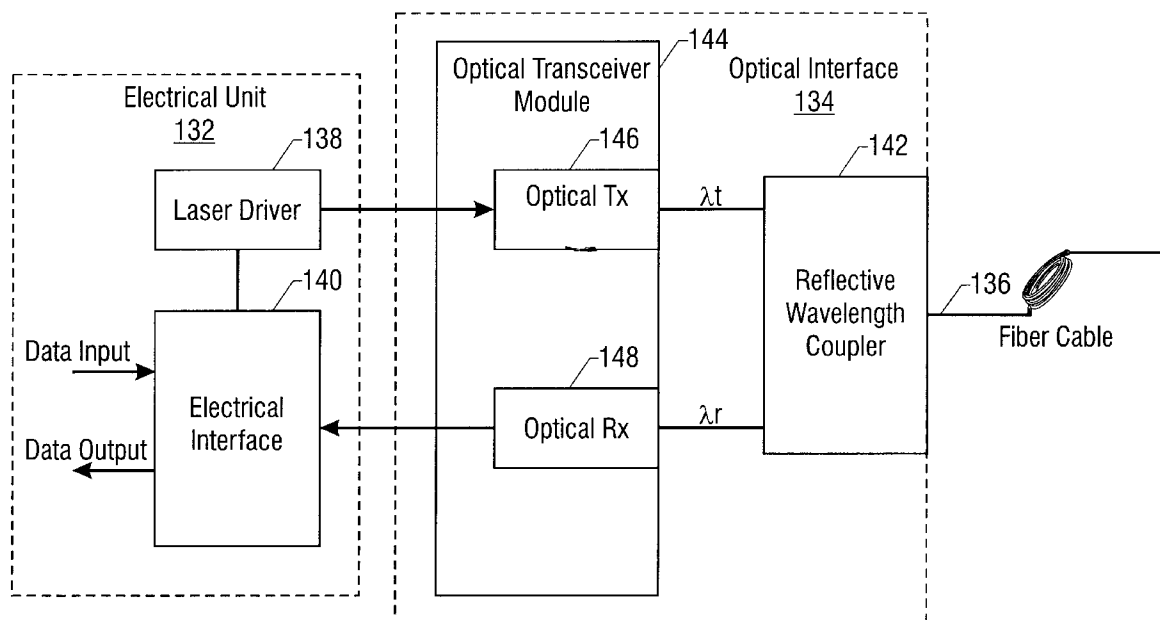
Primary Examiner—Kinfe-Michael Negash

(74) *Attorney, Agent, or Firm*—Trop, Pruner & Hu, P.C.

(57) **ABSTRACT**

An optical serial link may be formed of an optical transceiver and a reflective wavelength coupler. The coupler may reflect light beams of different wavelengths using an elliptical reflector and a dispersive element.

25 Claims, 4 Drawing Sheets



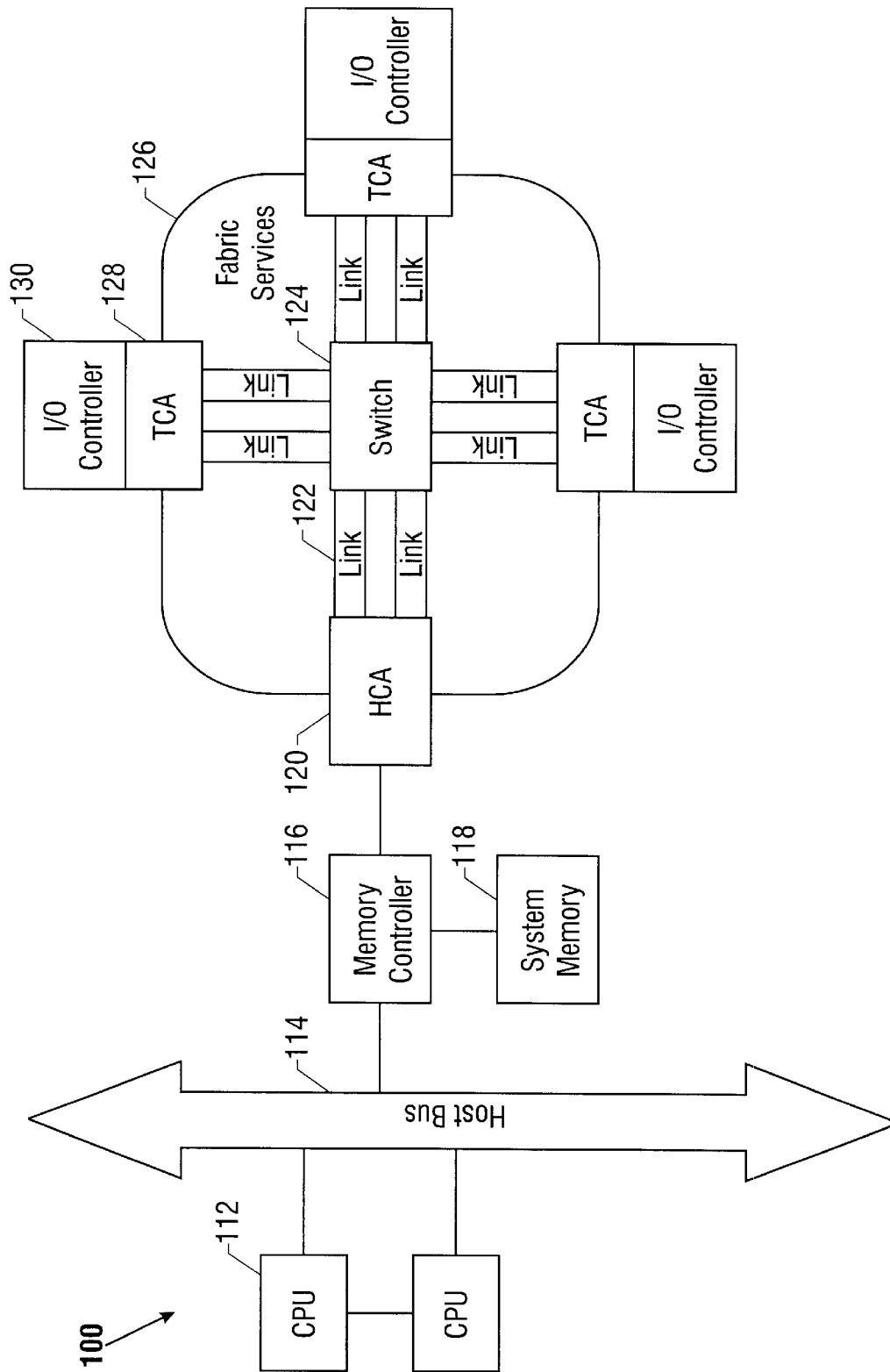


FIG. 1

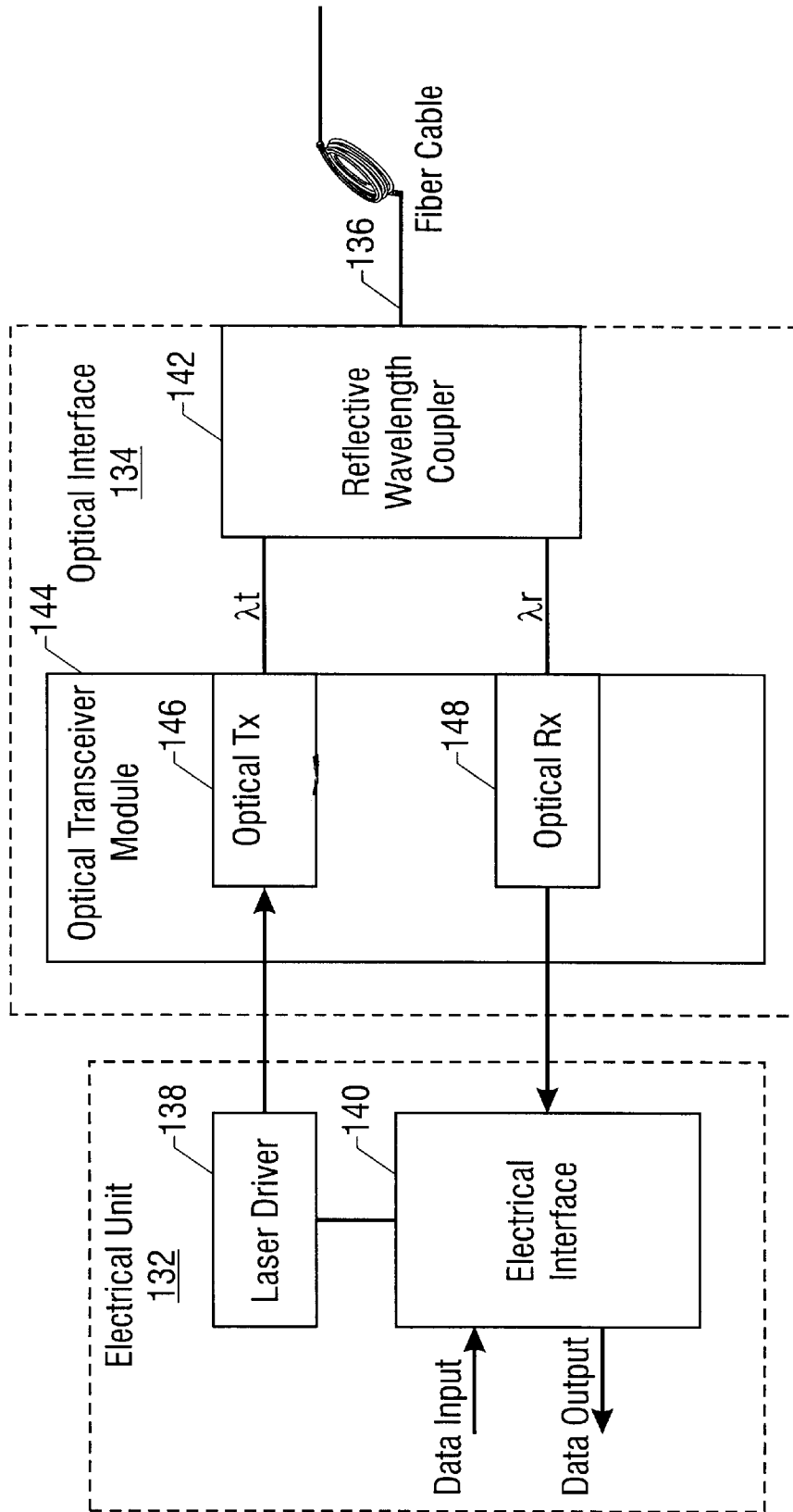


FIG. 2

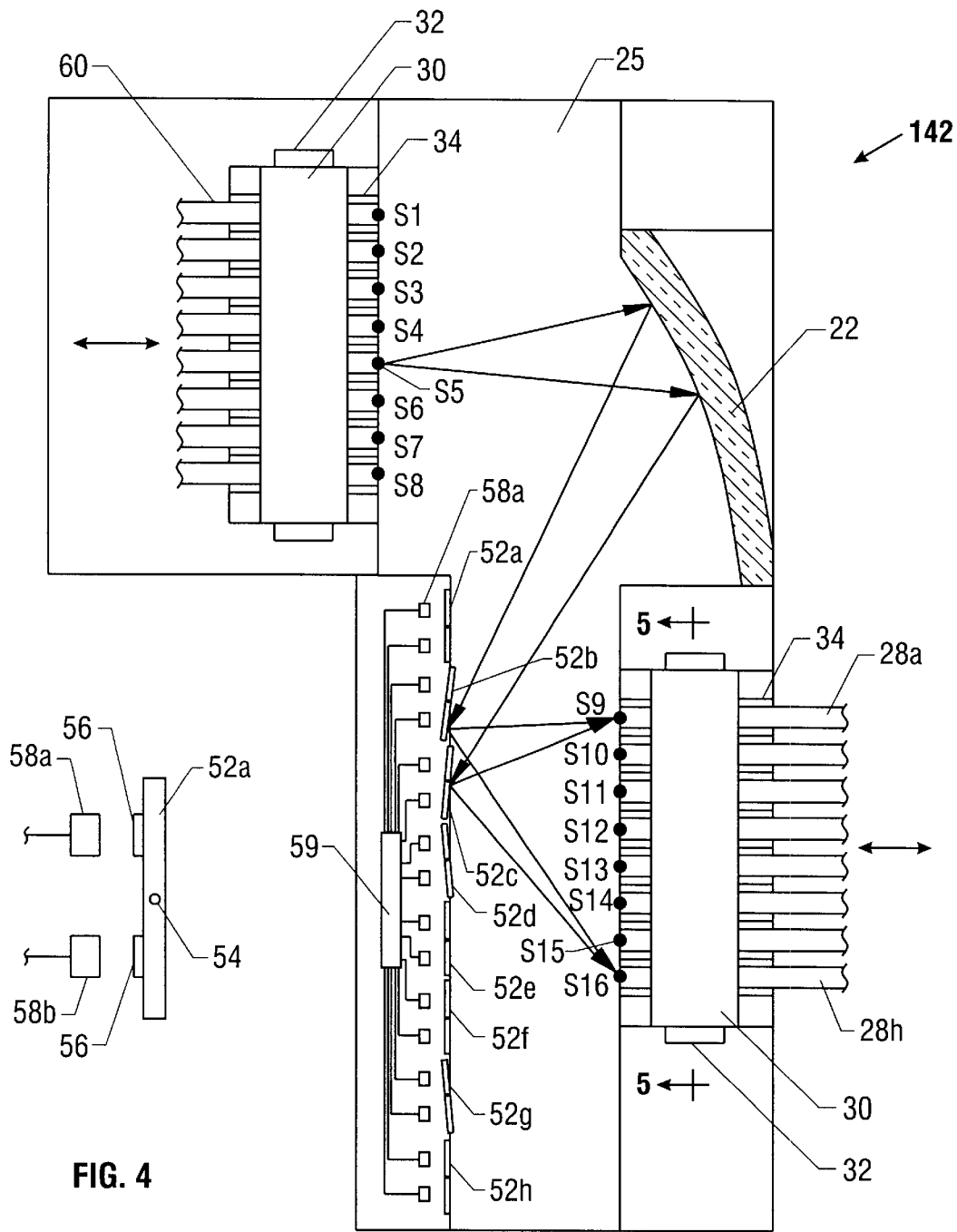


FIG. 4

FIG. 3

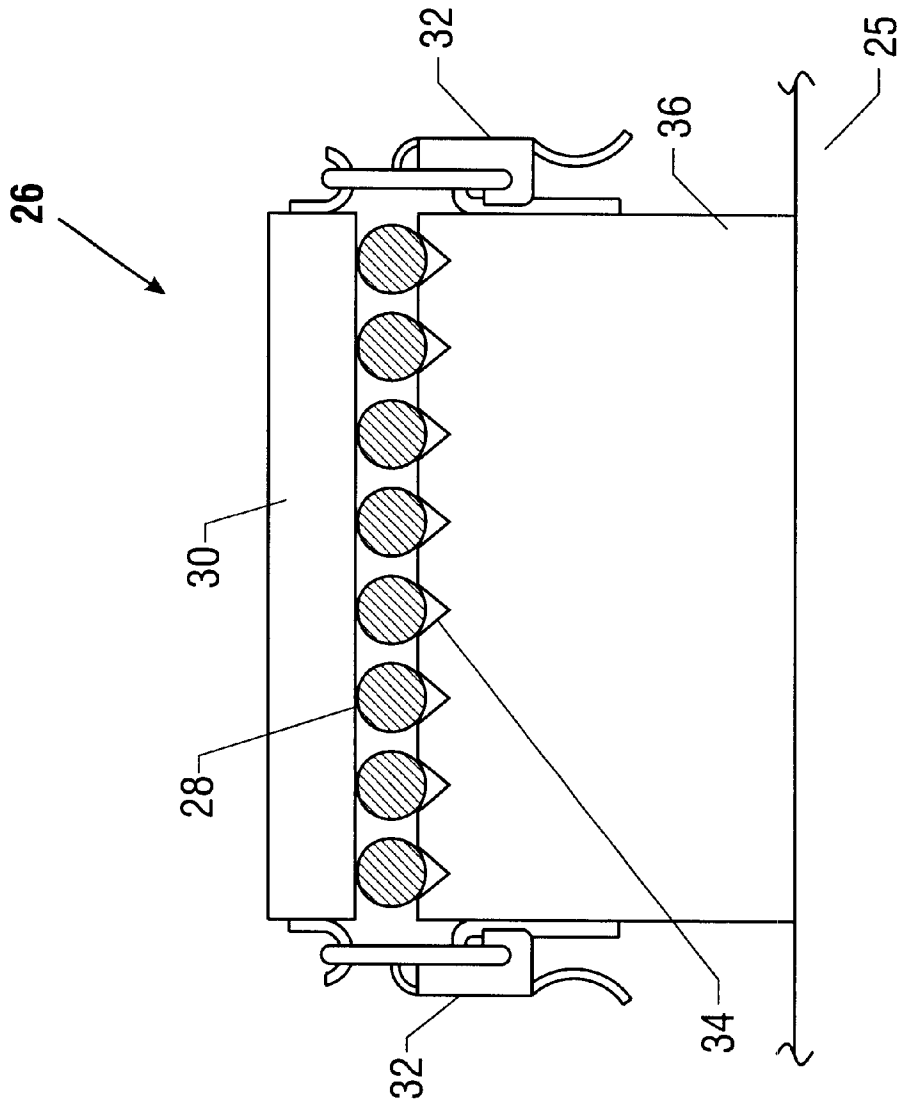


FIG. 5

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