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Dwelley et al.

(54) **COMMON-MODE DATA TRANSMISSION FOR POWER OVER ETHERNET SYSTEM**

(75) Inventors: David McLean Dwelley, Santa Barbara, CA (US); John Arthur Stineman JR., Carpinteria, CA (US)

> Correspondence Address: MCDERMOTT WILL & EMERY LLP 600 13TH STREET, N.W. WASHINGTON, DC 20005-3096 (US)

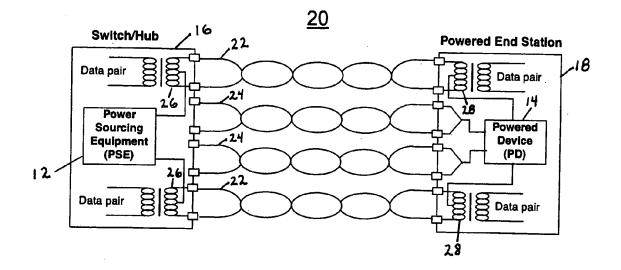
- (73) Assignee: LINEAR TECHNOLOGY CORPO-RATION
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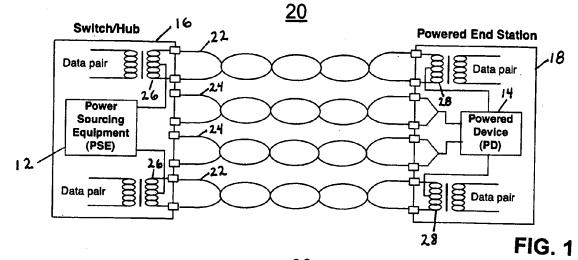
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(57) **ABSTRACT**

Circuitry and methodology for providing data transmission in a Power over Ethernet (PoE) system having a Power Sourcing Equipment (PSE) for providing power to a PoE link, and a Powered Device (PD) coupled to the PoE link for receiving the power from the PSE. The PSE and PD support data communication with each other in a common mode between two pairs of lines in an Ethernet twisted pair cable.





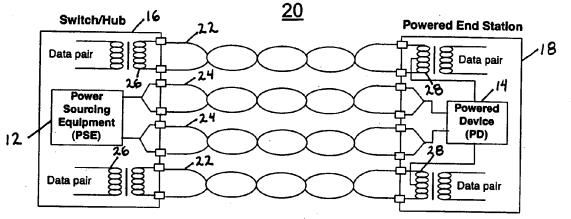
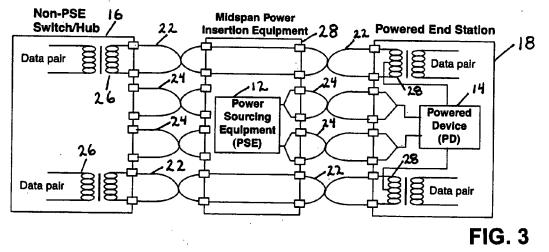


FIG. 2



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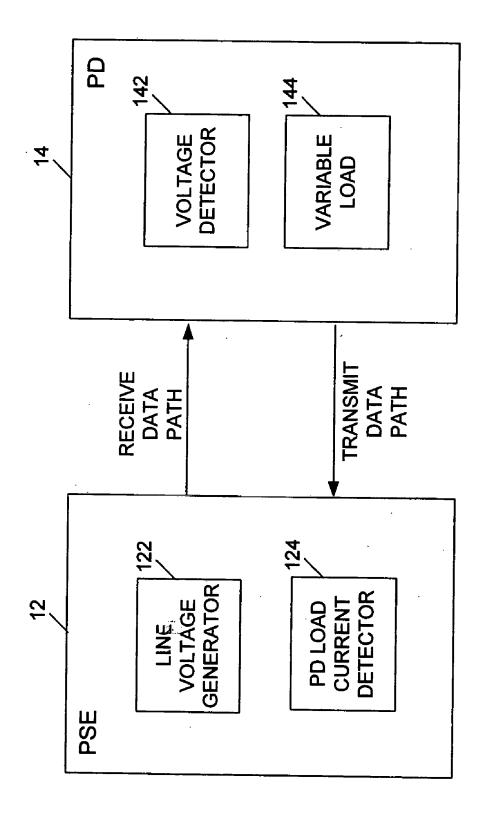
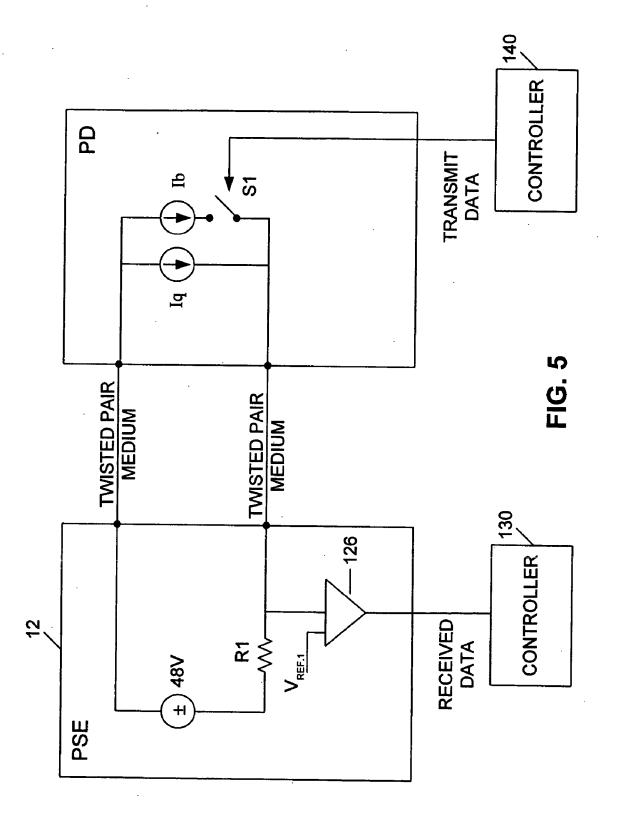
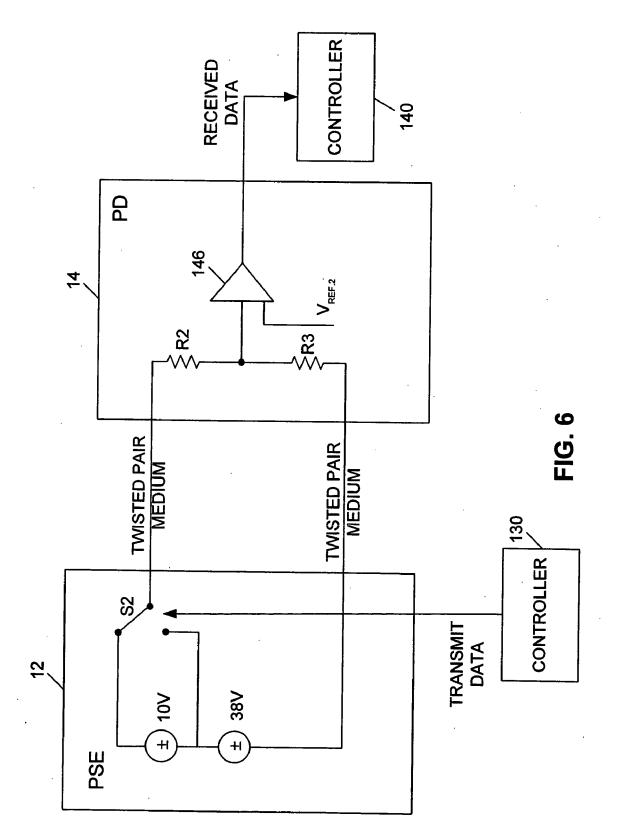


FIG. 4

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