

- [54] **DROP CABLE FOR A LOCAL AREA NETWORK**
- [75] **Inventor:** John M. Puvogel, Lawndale, Calif.
- [73] **Assignee:** Xerox Corporation, Stamford, Conn.
- [21] **Appl. No.:** 890,210
- [22] **Filed:** Jul. 28, 1986
- [51] **Int. Cl.⁴** **H04J 15/00**
- [52] **U.S. Cl.** **370/5**
- [58] **Field of Search** 370/5, 85, 89

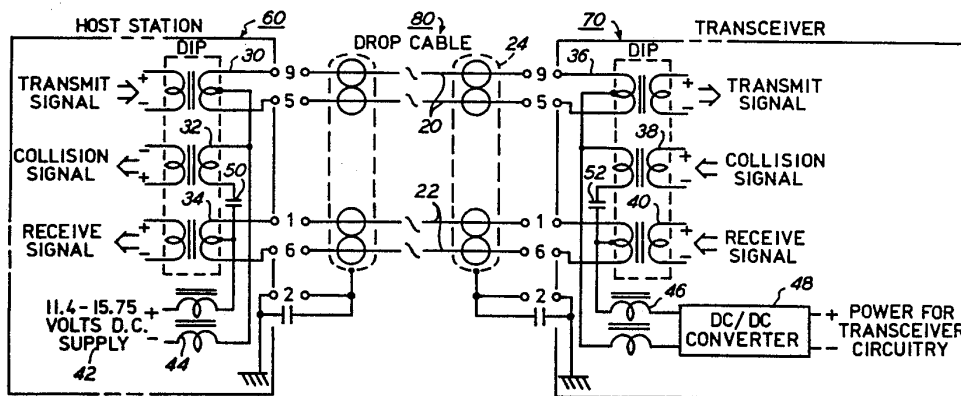
Primary Examiner—Douglas W. Olms
Attorney, Agent, or Firm—Franklyn C. Weiss

[57] **ABSTRACT**

A multipoint data communication system is disclosed for transmitting data to and from a plurality of communicating devices via an interconnecting cable. This interconnecting drop cable couples a transceiver unit to a communicating device, such as a personal computer, workstation, printer, or the like. The drop cable herein has only two twisted, jointly shielded, pairs of wires to transmit the three signals (transmit, receive, collision) and power. AC differences in the pairs constitute the third, phantom, signal channel. DC differences in the pairs provide the power source for transceiver operations. This cable is considerably less expensive than the industry standard cable.

- [56] **References Cited**
- U.S. PATENT DOCUMENTS**
- 1,374,221 4/1921 Osborne 370/5
 - 4,583,214 4/1986 Miyashita et al. 370/5
- FOREIGN PATENT DOCUMENTS**
- 0198932 10/1986 European Pat. Off. 370/5

2 Claims, 6 Drawing Figures



**PROPOSED AND DEMONSTRATED
 ETHERNET DROP CABLE CONCEPT**

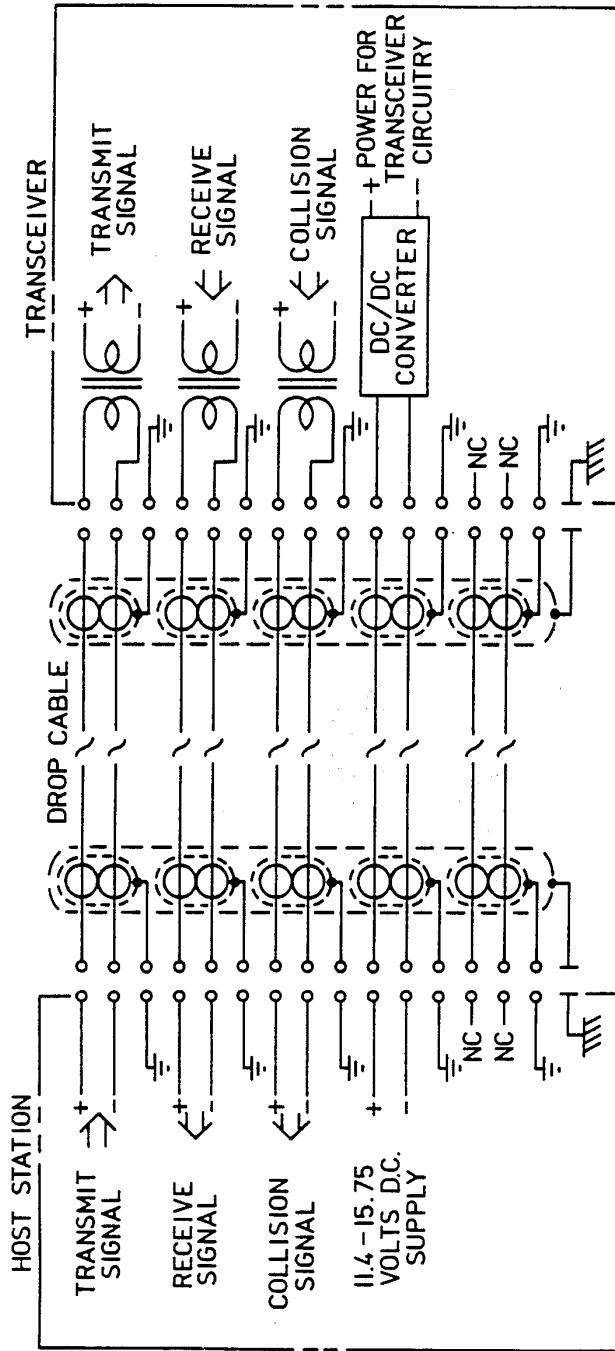


FIG. 1

ETHERNET DROP CABLE DEFINED BY SPECIFICATION IEEE 802.3

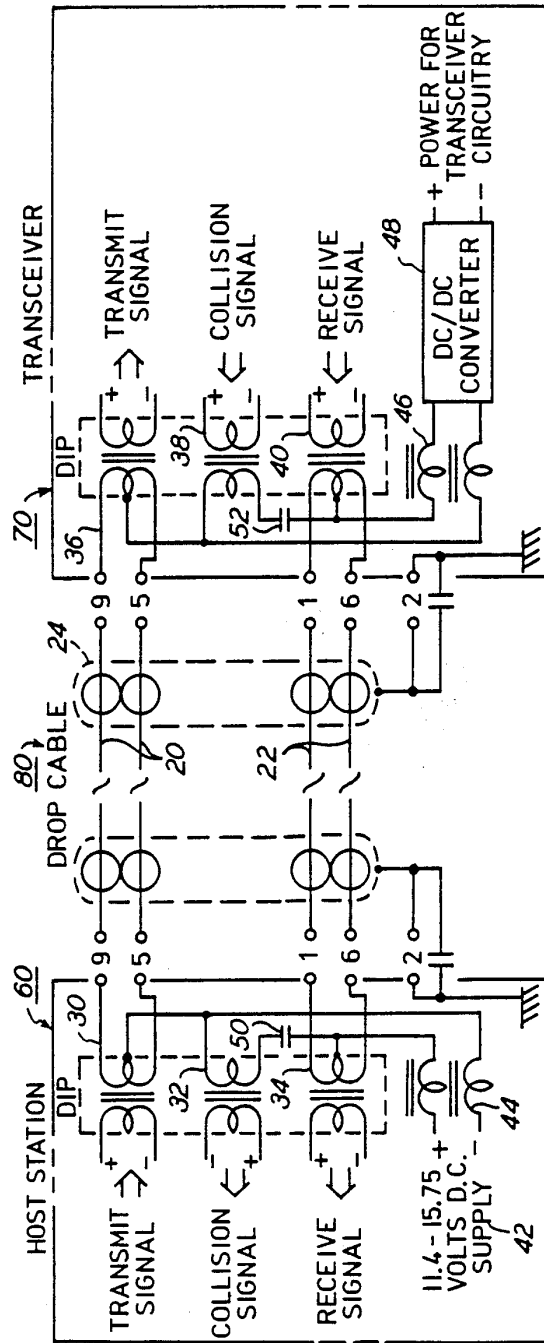


FIG. 2

PROPOSED AND DEMONSTRATED
ETHERNET DROP CABLE CONCEPT

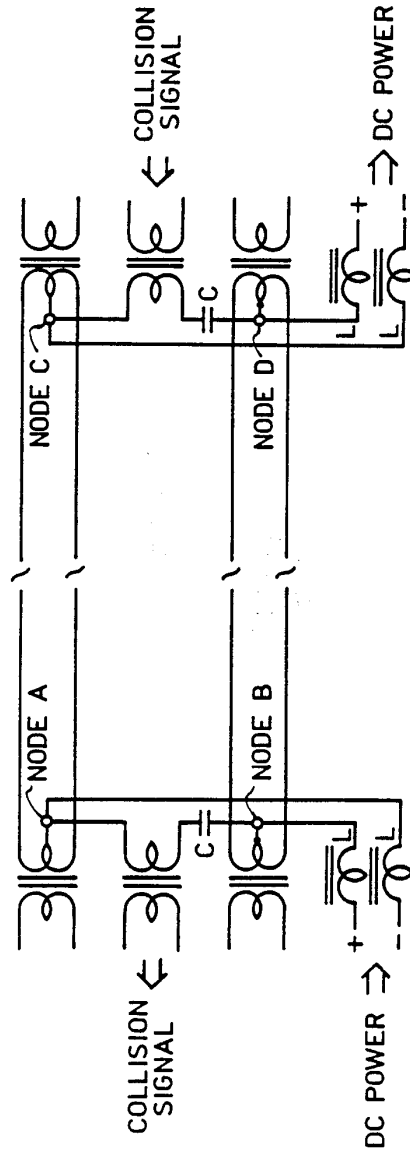


FIG. 3A

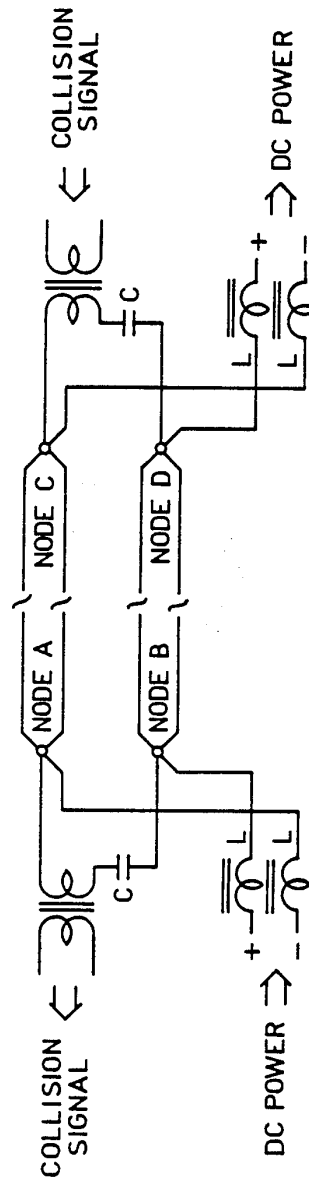


FIG. 3B

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