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Wincn et al.

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[54] **MEDIUM ATTACHMENT UNIT FOR USE WITH TWISTED PAIR LOCAL AREA NETWORK**

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[57] ABSTRACT

[21] Appl. No.: **480,426**

An integrated media attachment unit (MAU) operative for interfacing Digital Terminal Equipment (DTE) on a Local Area Network (LAN) using twisted pair media. The twisted pair function as either a DTE MAU or a repeater MAU. A line driver for the twisted pair differential signal provides a ramped response with low jitter while an improved Attachment Unit Interface (AUI) driver uses CMOS technology and provides simplified End-of-Transmission Delimiter (EDT) control. The twisted pair MAU includes a combined override and status indication of link status and an additional feature to allow automatic polarity reversal of differential signal input lines and polarity status signalling.

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[51] Int. Cl.⁵ **H04B 3/46**

[52] U.S. Cl. **375/10; 375/121**

[58] Field of Search **375/19, 36, 121, 10; 371/55, 56, 57; 370/13, 14, 15, 56, 80**

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5 Claims, 37 Drawing Sheets

