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(12) United States Patent

Vogel et al.

(54) SYSTEM AND METHOD FOR
DISTRIBUTING A SINGLE MULTICAST
MULTI-PROGRAM AUDIO STREAM OVER A
NETWORK

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(51) **Int. Cl.**⁷ **G06F 15/16**; H04J 3/20

(52) **U.S. Cl.** **709/236**; 709/230; 370/395.52

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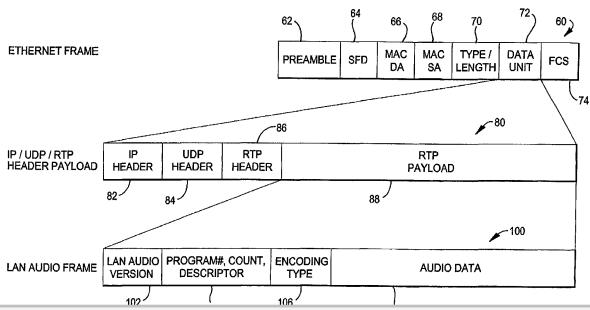
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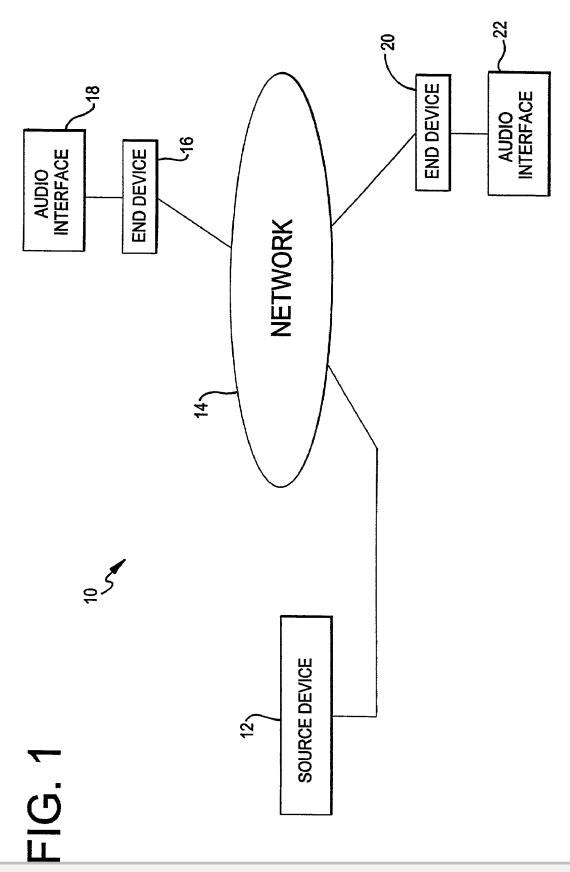
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(57) ABSTRACT

A system and method for distributing multi-program audio over a network includes the use of a Local Area Network, Wide Area Network, an Intranet and the Internet. The system includes a network audio source, a network distribution system and end devices. The method, for distributing multi-program audio over a network includes creating a network audio frame from a plurality of blocks of data from at least one audio program, placing each network audio frame within a transport structure for transport across the network and assigning an address to the transport structure prior to delivering the transport structure to a physical media.

11 Claims, 5 Drawing Sheets

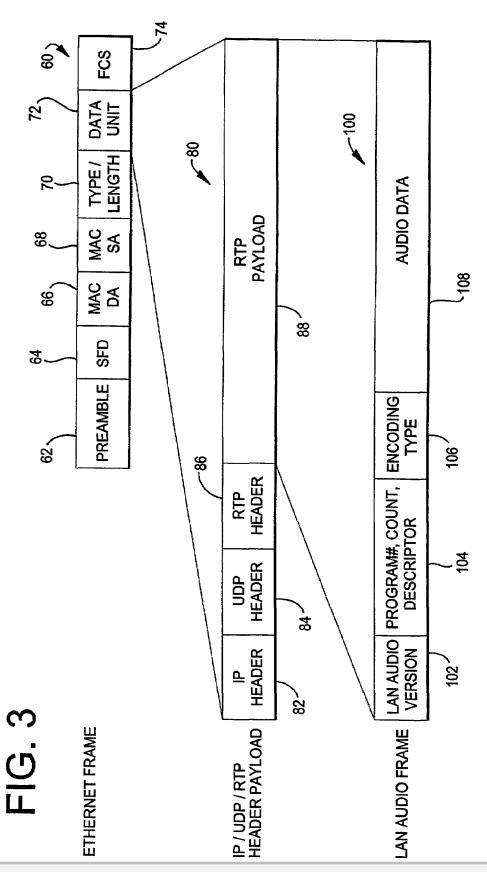




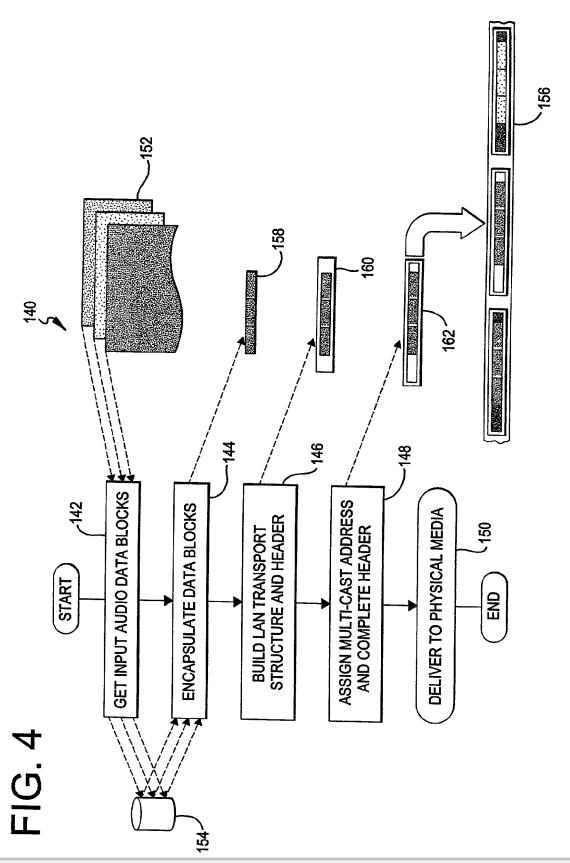


40/ **AUDIO DATA** 38 FCS 24 DATA UNIT -36 <u>'</u>Z TYPE / LENGTH PACKET # FRAGMENT 8, 52, MAC 32\ MAC 20, ဗ္ဗ PAYLOAD SIZE SFD \$ PREAMBLE ENCODING 46, 26, PROGRAM#, COUNT, DESCRIPTOR 4 LAN AUDIO VERSION 42 **ETHERNET FRAME** AN AUDIO FRAME











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