EXHIBIT DSS-2012





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(12) United States Patent Wheatley

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(54) FRAME SYNCHRONIZATION IN DATA COMMUNICATION SYSTEM

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(US)

(*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35

U.S.C. 154(b) by 746 days.

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(30) Foreign Application Priority Data

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(51) Int. Cl. H04L 7/00

(2006.01)

(58) Field of Classification Search 375/365-368,

375/354, 355, 362 See application file for complete search history.

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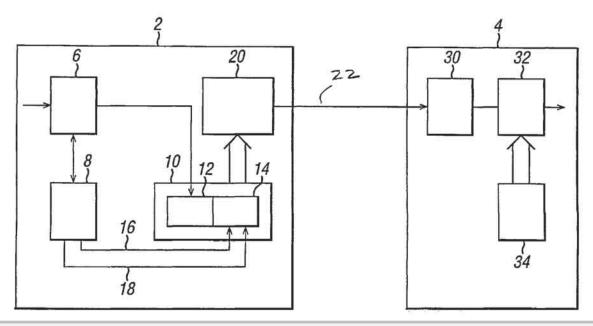
* cited by examiner

Primary Examiner-Kevin Burd

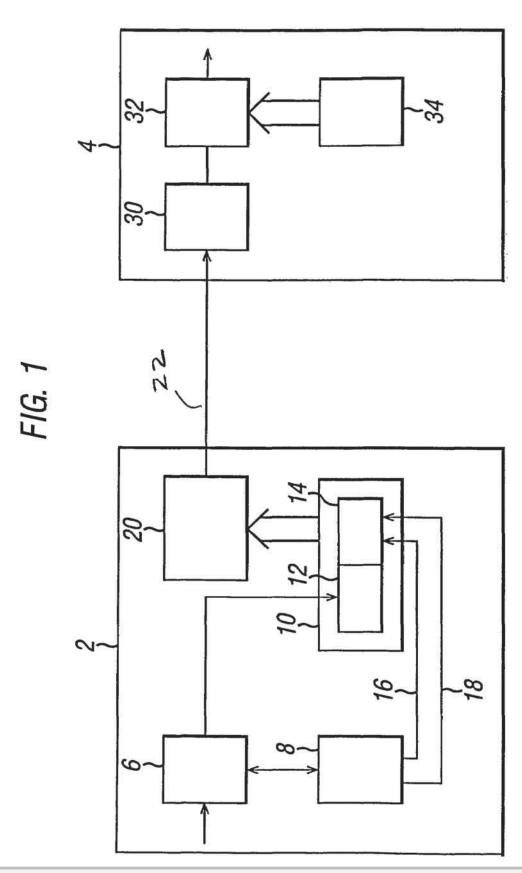
(57) ABSTRACT

In order to provide a simple and reliable means of frame synchronization in a serial data communication system, which avoids the problem of 'bit-stuffing' in known HDLC systems, the data communication system comprises a transmitter arranged to transmit data as a sequence of frames, each frame comprising a synchronization section and a payload section of data, and the transmitter including in the synchronization section of each frame a count value of a sequence of count values (a part of a predetermined code sequence), wherein successive frames contain successive count values (other parts of the predetermined code sequence) The receiver includes a FIFO buffer for storing three successively received frames, and a processor for assessing the stored data within the frames in order to locate and recognize the count values, whereby to synchronize to the received frames.

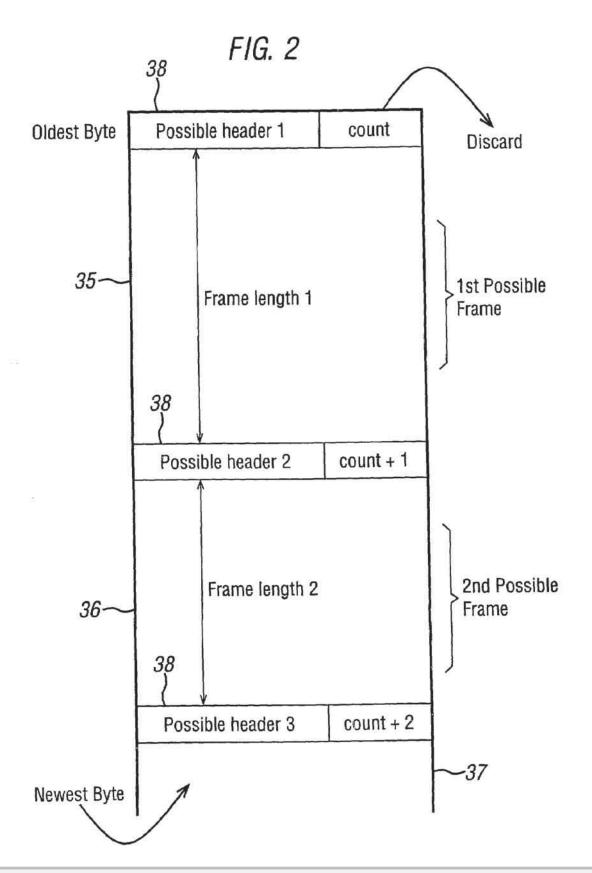
18 Claims, 3 Drawing Sheets



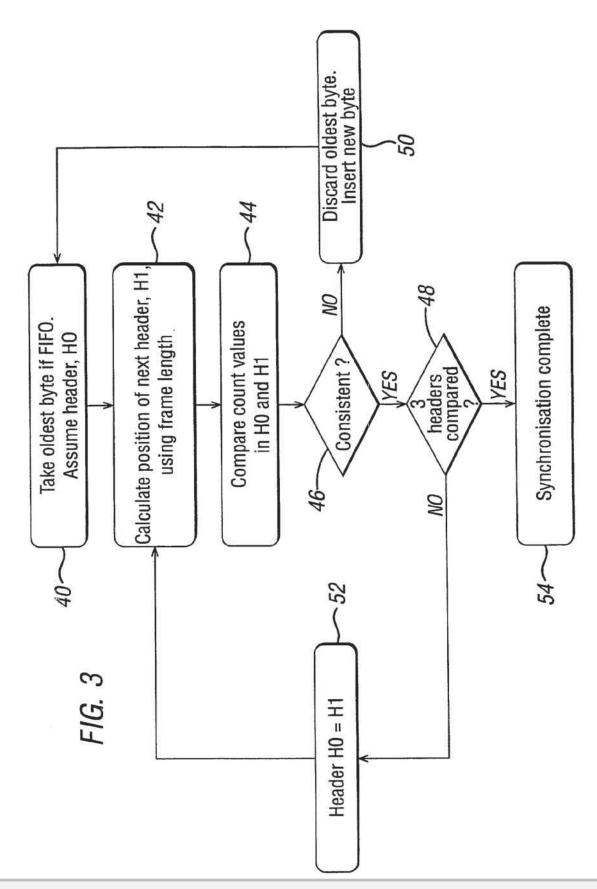














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