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Yocum et al.

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(54) **SYSTEM AND METHOD OF ADAPTIVE MESSAGE PIPELINING**

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- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(51) **Int. Cl.**⁷ **G06F 13/00**
(52) **U.S. Cl.** **710/52; 710/30; 710/131; 709/250**
(58) **Field of Search** **709/250; 710/52-57, 710/29-35, 129-131**

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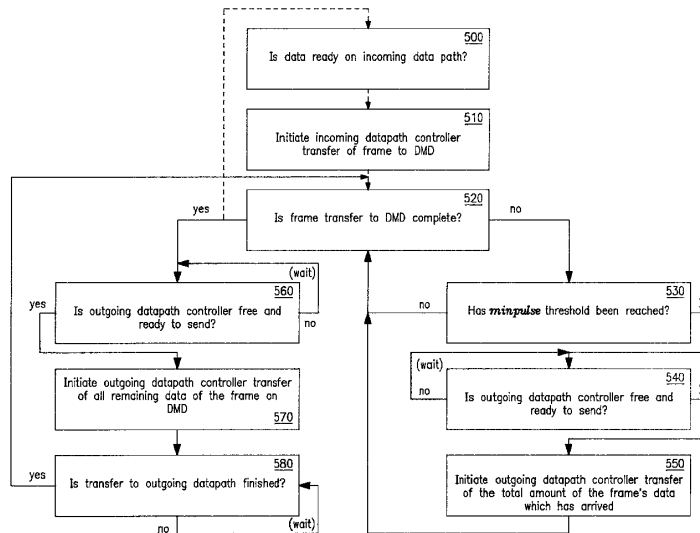
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(57) **ABSTRACT**

A system and method termed adaptive message pipelining in which two or more data paths are joined by a data movement device. The data movement device has a data path controller for each incoming and outgoing data path. Adaptive message pipelining is a dynamic policy which adjusts between a store and forward data delivery method and a cut through delivery of data based upon network and I/O bus contention in order to decrease latency and maximize system throughput.

15 Claims, 8 Drawing Sheets



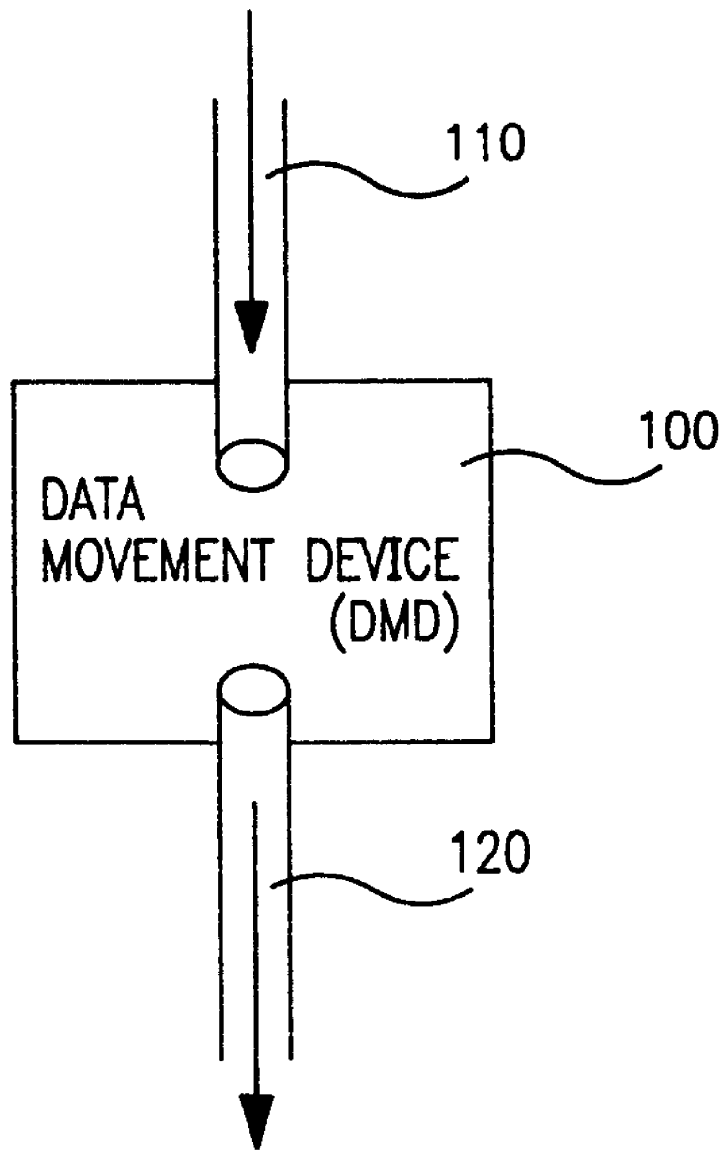


FIG. 1

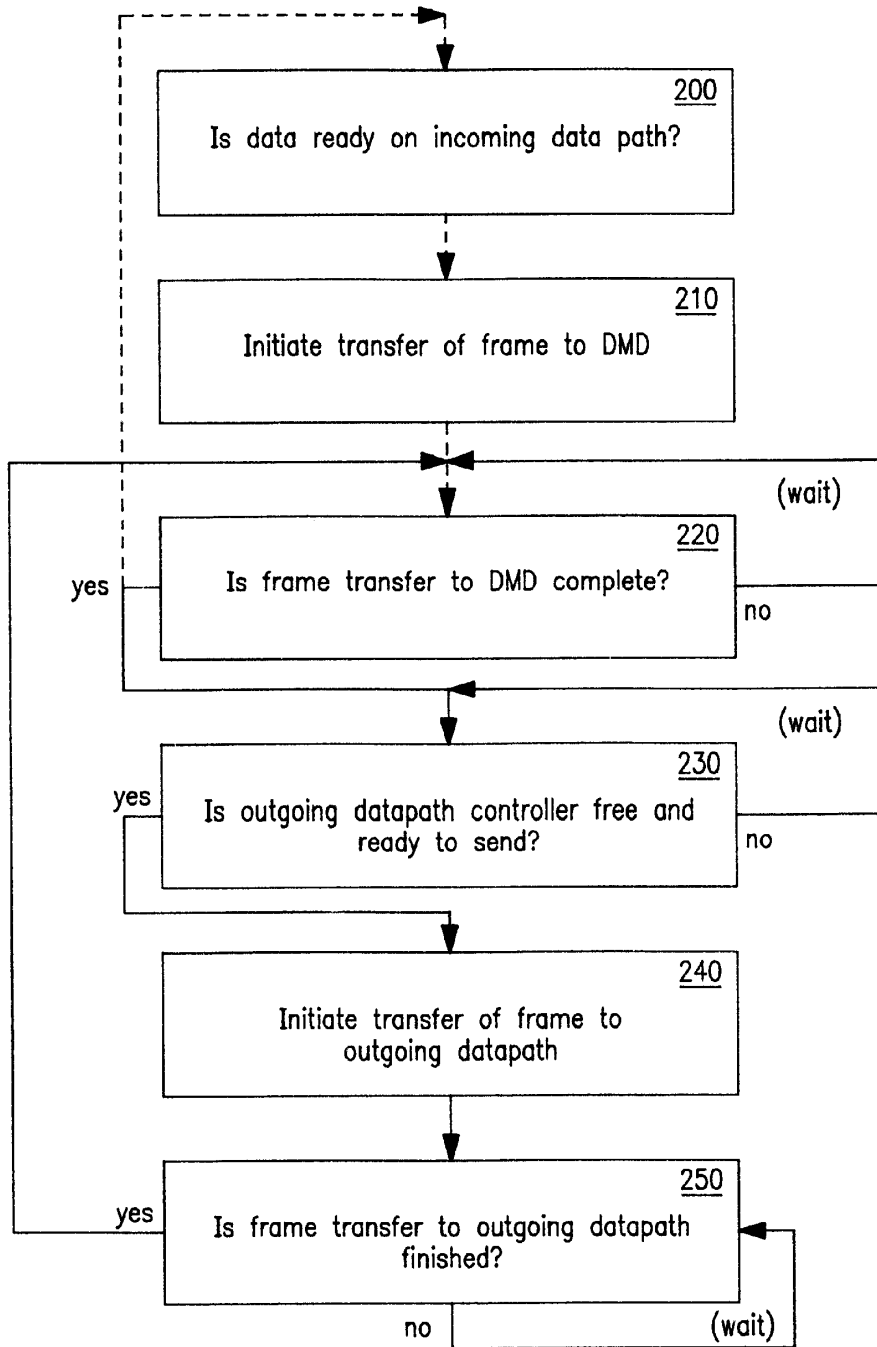


FIG. 2
PRIOR ART

FIG. 3
PRIOR ART

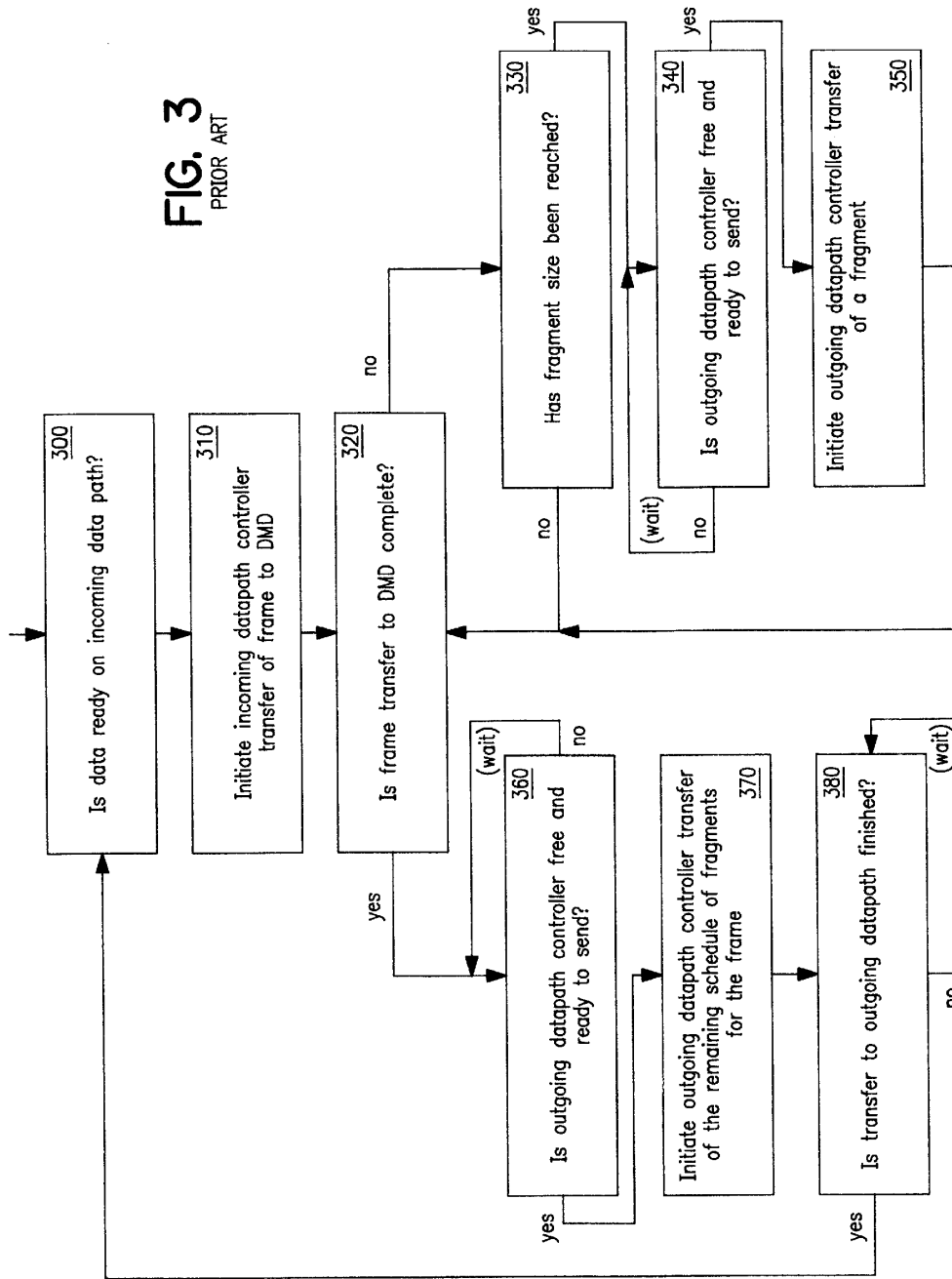
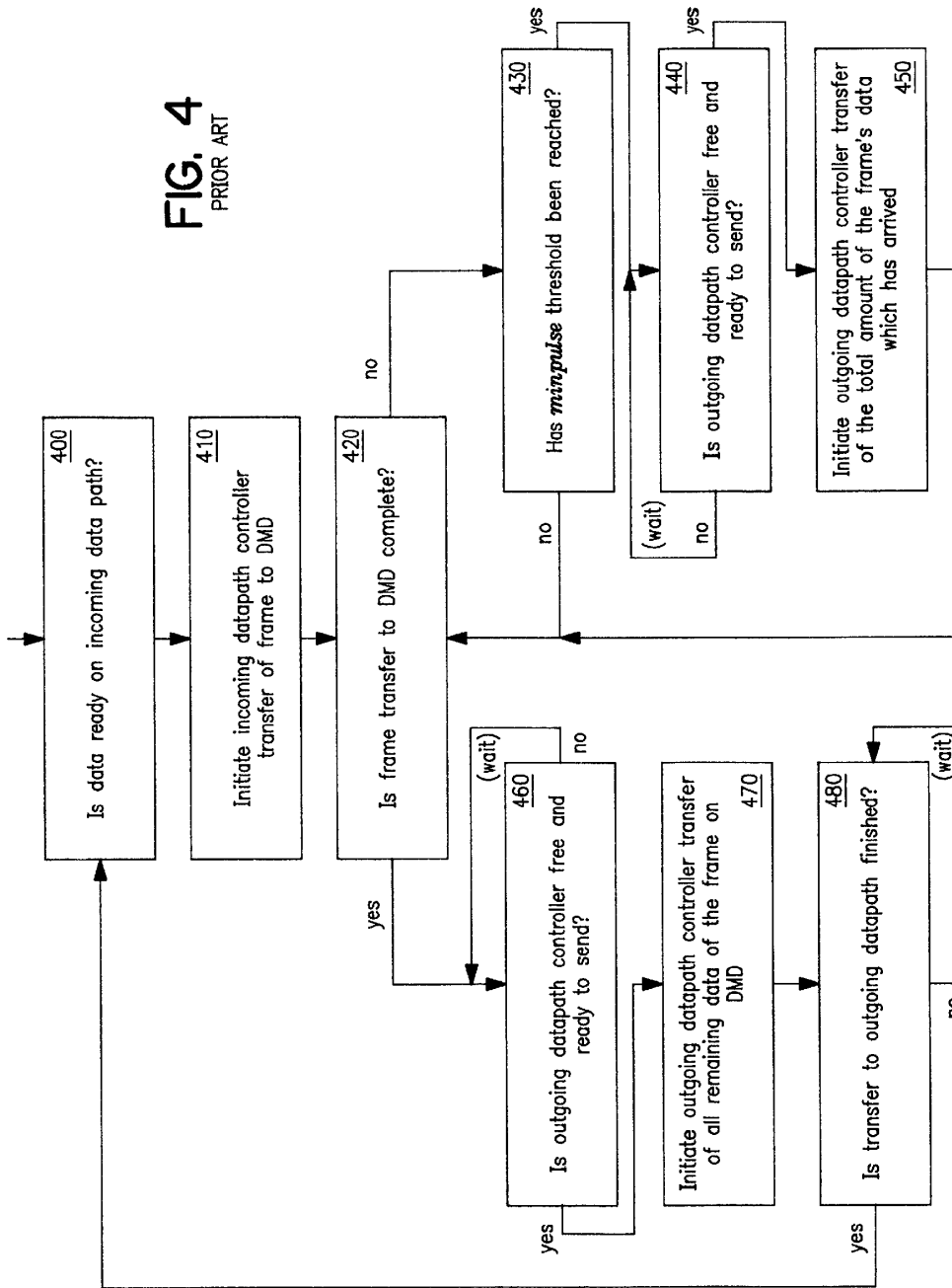


FIG. 4
PRIOR ART



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