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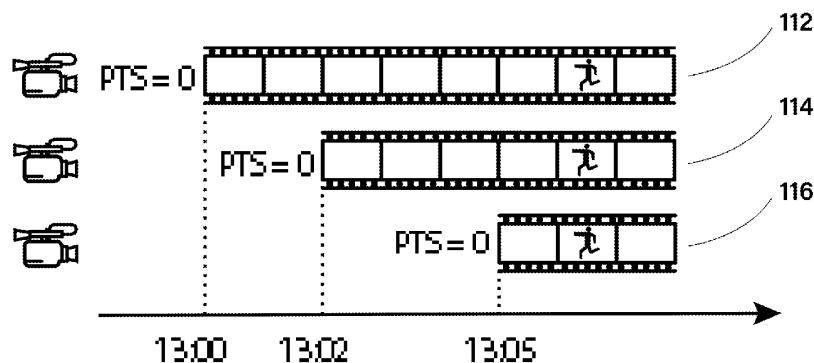


Figure 1

(57) Abstract: A method of providing a time-synchronized multi-stream data transmission includes the steps of: (i) providing a first recording or generating device for providing frames of a first data stream; (ii) encoding the first data stream into packets, wherein each first data stream packet includes a presentation time and a predetermined number of first data stream frames; (iii) providing a second recording or generating device for providing frames of a second data stream; (iv) encoding the second data stream into packets, wherein each second data stream packet includes a presentation time and a predetermined number of second data stream frames; (v) transmitting the first and second data streams to a processing device; (vi) associating a start reference time with the first packet of the first and second data streams transmitted; (vii) assigning a first stream start time to the first packet of the first data stream transmitted and a second stream start time to the first packet of the second data stream transmitted; (viii) associating a first time offset from the start reference time and first data stream start time (either directly or indirectly) with each subsequent packet of the first data stream and associating a second time offset from the start reference time and second data stream start time (either directly or indirectly) with each subsequent packet of the second data stream; (ix) time-aligning the first data stream packets with the second data stream packets using the first time offset associated with the first data stream and using the second time offset associated with the second data stream; and (x) applying a common presentation time to the aligned first and second data stream packets, irrespective of the original presentation time of the first and second data streams.

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