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12/020,836 28 January 2008 (28.01.2008) US(71) Applicant (for all designated States except US): **CISCO TECHNOLOGY, INC.** [US/US]; 170 West Tasman Drive, San Jose, California 95134-1706 (US).(72) Inventors: **BAINS, Amrik S.**; 297 Abalone Place, Livermore, California 94550 (US). **BIEDERMAN, Daniel C.**; 220 Primrose Drive, San Jose, California 95123 (US). **HEFLIN, Darrell Rice**; 3106 Castellano Way, Cedar Park, Texas 78613 (US). **FINN, Norman William**; 1685 Call of the Wild Court, Livermore, California 94550 (US). **KONDAKA, Krishna**; 35313 Terra Cotta Circle, Fremont, California 94536 (US). **JONES, Peter Geoffrey**; 2139 Anthony Drive, Campbell, California 95008 (US).(74) Agent: **MIZER, Susan L.**; Tucker Ellis & West LLP, 925 Euclid Avenue, 1150 Huntington Building, Cleveland, Ohio 44115 (US).

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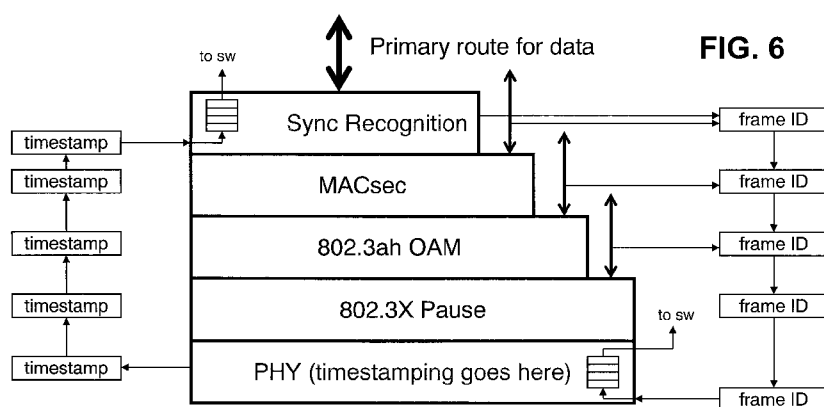
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(54) Title: FLEXIBLE TIME STAMPING



- Every received frame carries a timestamp up the stack.
- Every transmitted frame carries an ID down the stack.

(57) Abstract: In an example embodiment, an apparatus comprising a physical layer processing device that comprises logic configured to process a packet received from a physical layer interface is disclosed. The physical layer processing device logic is further configured to determine a preamble portion of the packet and a data portion of the packet. The physical layer processing device logic is further configured to insert a timestamp into the preamble portion of the packet. The physical layer processing device logic forwards the packet with the timestamp inserted into the preamble.

A. CLASSIFICATION OF SUBJECT MATTER***H04L 29/02(2006.01)i***

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC H04L H04B H04Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
KOREAN UTILITY MODELS AND APPLICATIONS FOR UTILITY MODELS SINCE 1975Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
eKOMPASS (KIPO internal), IEEEExplore**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	US 2005-0111448 A1 (CHARLES E. NARAD) 26 May 2005 see abstract, paragraphs [0018], [0023]-[0031], figures 4A, 5 and 6	1 14-16, 19
Y	US 2004-0062200 A1 (VIJAY SARATHI KESAVAN) 01 April 2004 see abstract, paragraphs [0017]-[0018], figure 1	14-16, 19
A	US 6,470,031 B1 (DIETMAR LOY et al.) 22 October 2002 see abstract, column 2 line 30 - 49, figure 1, claims 1, 2 and 4	1-20
A	US 2002-0021717 A1 (KAYNAM HEDAYAT et al.) 21 February 2002 see abstract, paragraphs [0031]-[0034], figure 2	1-20



Further documents are listed in the continuation of Box C.



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