

Ex. GOOG 1032

[54] **IMAGE-INFORMATION STORAGE  
REGENERATING DEVICE**

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[30] **Foreign Application Priority Data**

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Dec. 24, 1993	[JP]	Japan	5-328717
Dec. 24, 1993	[JP]	Japan	5-328822

[51] Int. Cl.<sup>6</sup> ..... **H04J 3/24**

[52] U.S. Cl. .... **370/474; 370/535; 348/466; 348/232**

[58] **Field of Search** ..... 348/466, 467, 348/423, 17, 670, 393, 394, 395, 419; 370/94.1, 97, 60, 60.1, 94.2, 112, 84, 85.6, 118, 109, 108, 110.1; 371/37.1, 38.1, 39.1, 30, 37.2, 37.7, 37.8, 40.2, 69.1; 375/206, 371, 363, 214; 455/18; 379/53, 96

[56] **References Cited**

**U.S. PATENT DOCUMENTS**

5,012,338	4/1991	Davies	348/467
5,159,452	10/1992	Kinoshita et al.	348/466

5,347,305	9/1994	Bush et al.	348/17
5,392,284	2/1995	Sugiyama	348/17
5,481,543	1/1996	Veltman	370/112

**FOREIGN PATENT DOCUMENTS**

62-188579	8/1987	Japan
3-132128	6/1991	Japan
4-079655	3/1992	Japan

**OTHER PUBLICATIONS**

Ichizo Kimura et al., Prototyping of PC-Videophone with Built-In Codec based on Open Architecture, 1993, The Journal of the Institute of Image Electronics Engineers of Japan, vol. 22, No. 4, pp. 355-367.

Primary Examiner—Douglas W. Olms  
Assistant Examiner—Dang Ton

[57] **ABSTRACT**

The present invention provides such a data storing format that is effective for solving problems which may arise when regenerating video data in a video data storage and communication system. A channel data demultiplexing portion splits a multiplexed input into audio/video and other components. An error correction portion corrects an error of the video data output from the channel data demultiplexing portion. A video frame extracting portion extracts a video frame output from the error correction portion. A packet assembling portion assembles a packet from the video data output from the video frame extracting portion and the audio data output from the data demultiplexing portion. A storage portion stores therein the packet output from the packet assembling portion. Consequently, video data can be stored by video frames.

**11 Claims, 33 Drawing Sheets**

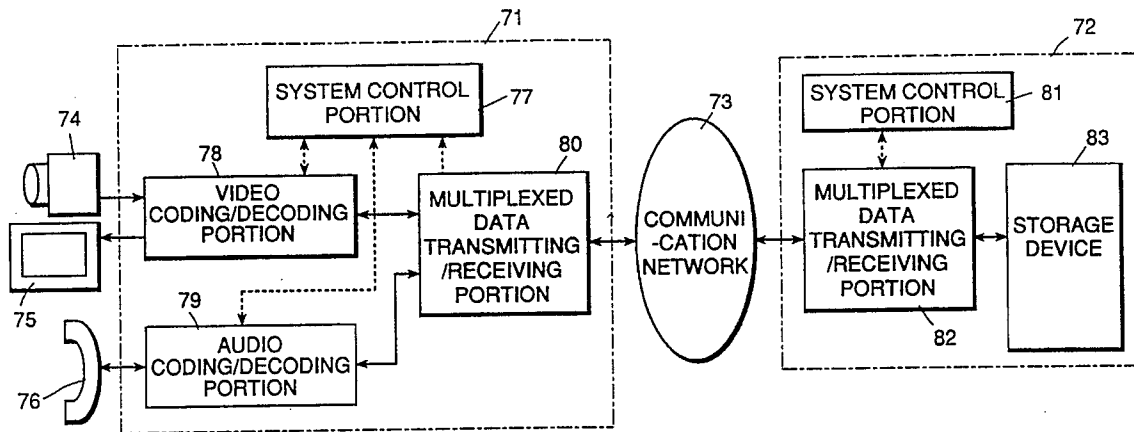


FIG. 1  
(PRIOR ART)

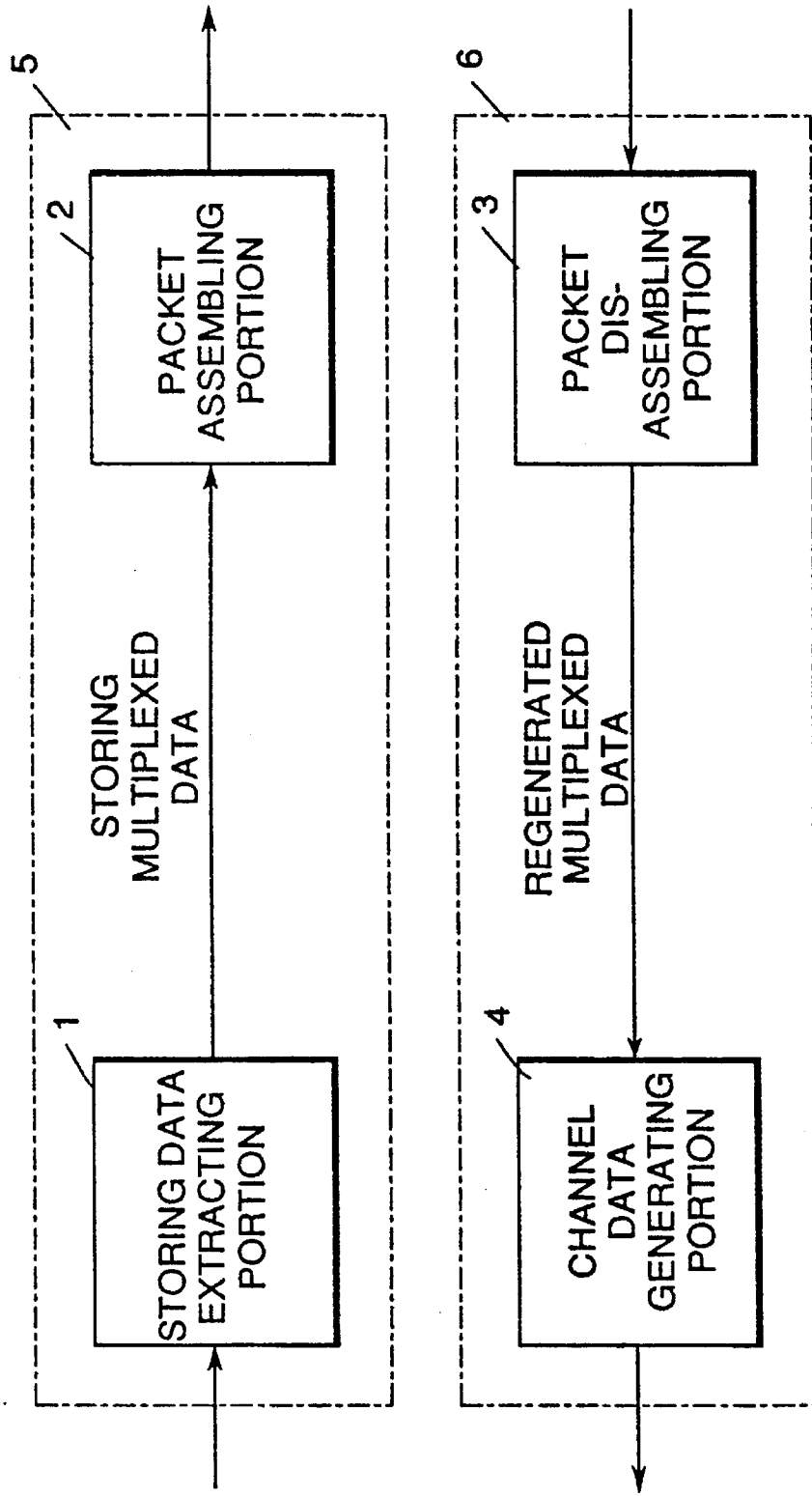


FIG.2 A  
( PRIOR ART )

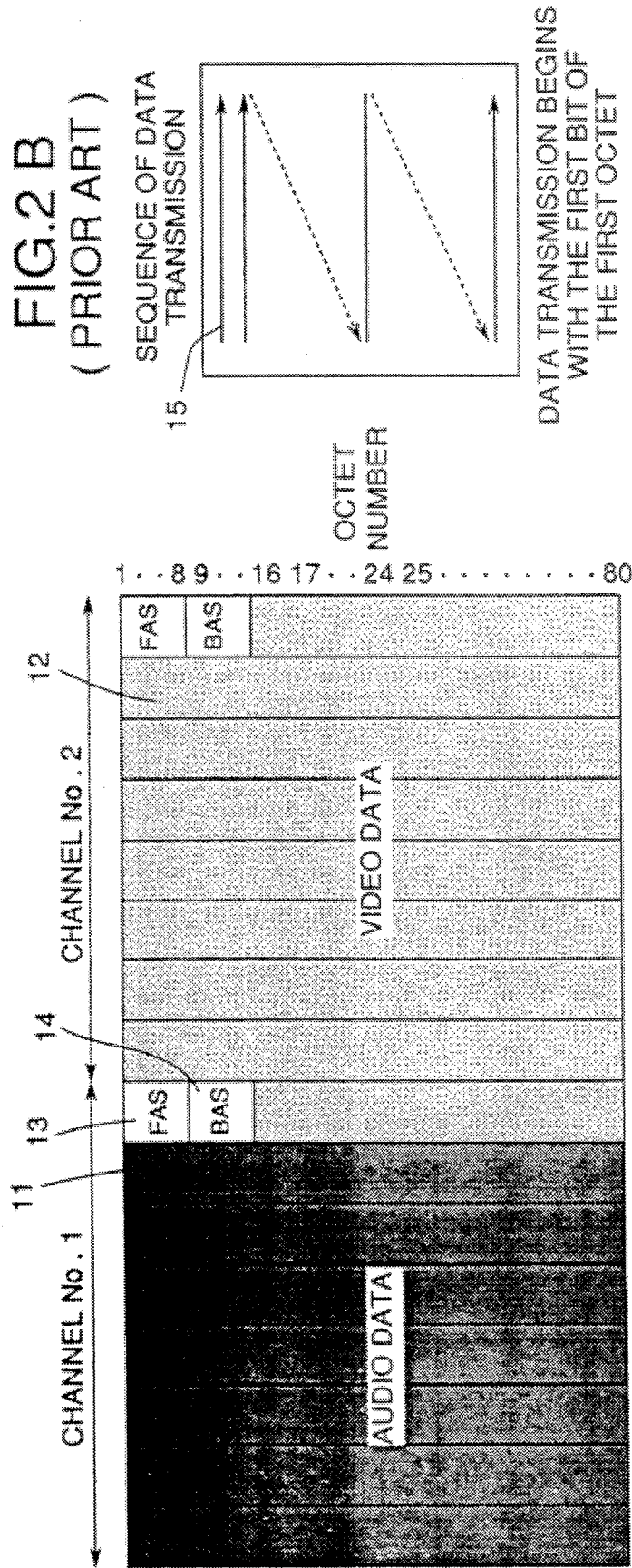
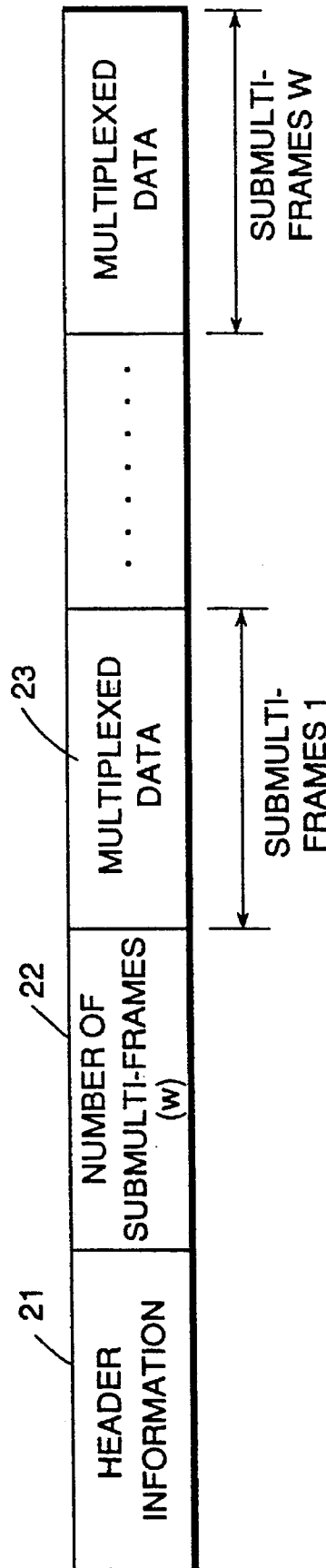


FIG.3  
(PRIOR ART)



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