



AMTC IP Coverage

Internet Website Operator
Transmitting Video to Personal
Computers
Compared to
Yurt '992 Claim 1

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Patent 5,132,992 Claim 1:

1. A transmission system for providing information to be transmitted to remote locations, the transmission system comprising:

library means for storing items containing information;

identification encoding means for retrieving the information in the items from the library means and for assigning a unique identification code to the retrieved information;

conversion means, coupled to the identification encoding means, for placing the retrieved information into a predetermined format as formatted data;

ordering means, coupled to the conversion means, for placing the formatted data into a sequence of addressable data blocks;

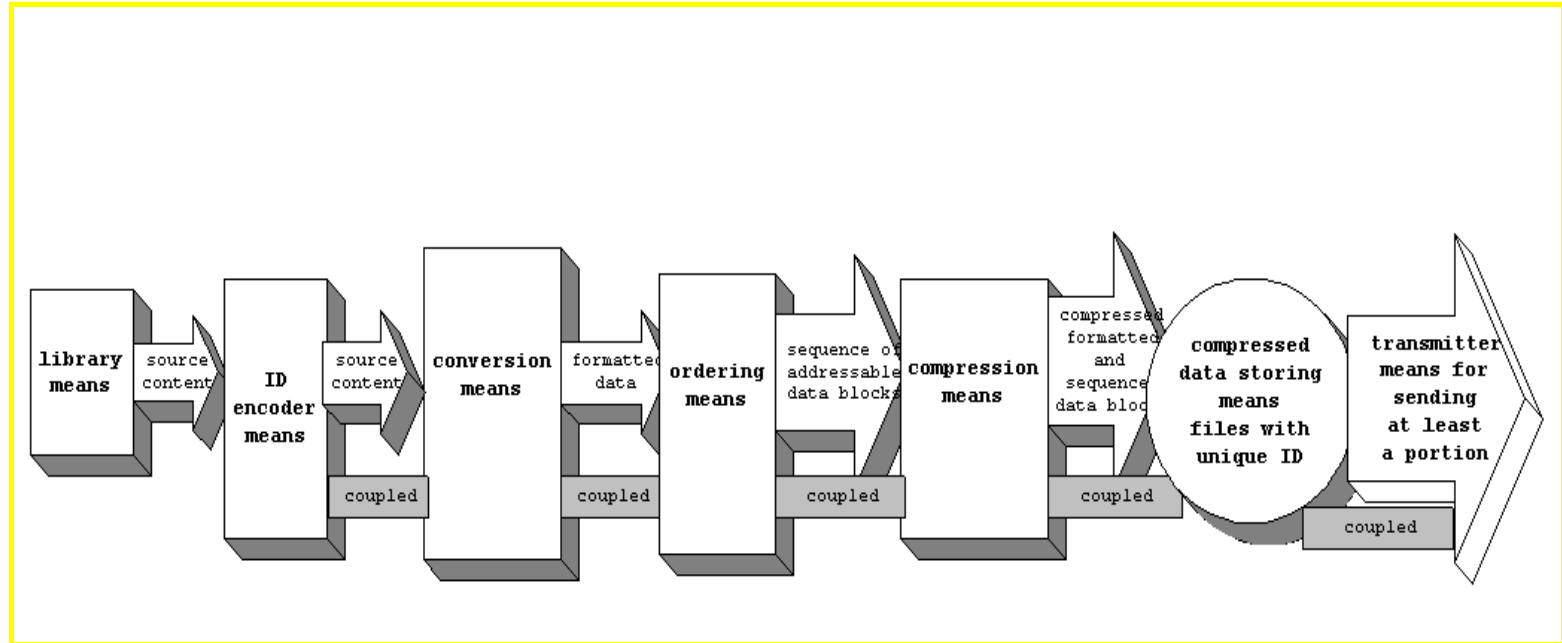
compression means, coupled to the ordering means, for compressing the formatted and sequenced data blocks;

compressed data storing means, coupled to the data compression means, for storing as files the compressed, sequenced data blocks received from the data compression means with the unique identification code assigned by the identification encoding means; and

transmitter means, coupled to the compressed data storing means, for sending at least a portion of one of the files to one of the remote locations.

Internet Website Operator Transmitting Video to Personal Computers Compared to the '992 Patent Claim 1:

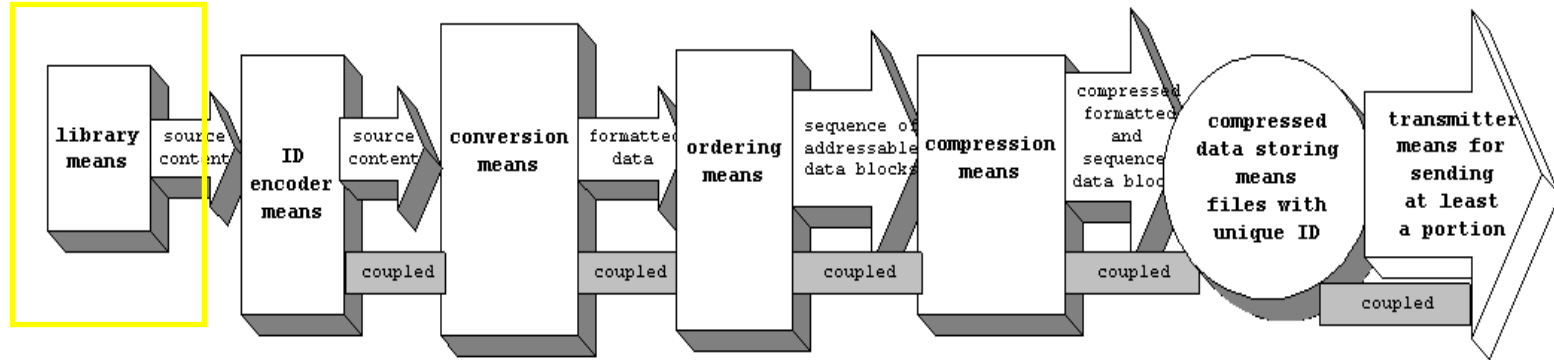
A transmission system for providing information to be transmitted to remote locations, the transmission system comprising:



An Internet website operator transmits (e.g., downloads, streams) media (e.g., movies, news clips, music videos) over the Internet to the personal computers of its customers. This is an example of a transmission system.

Internet Website Operator Transmitting Video to Personal Computers Compared to the '992 Patent Claim 1:

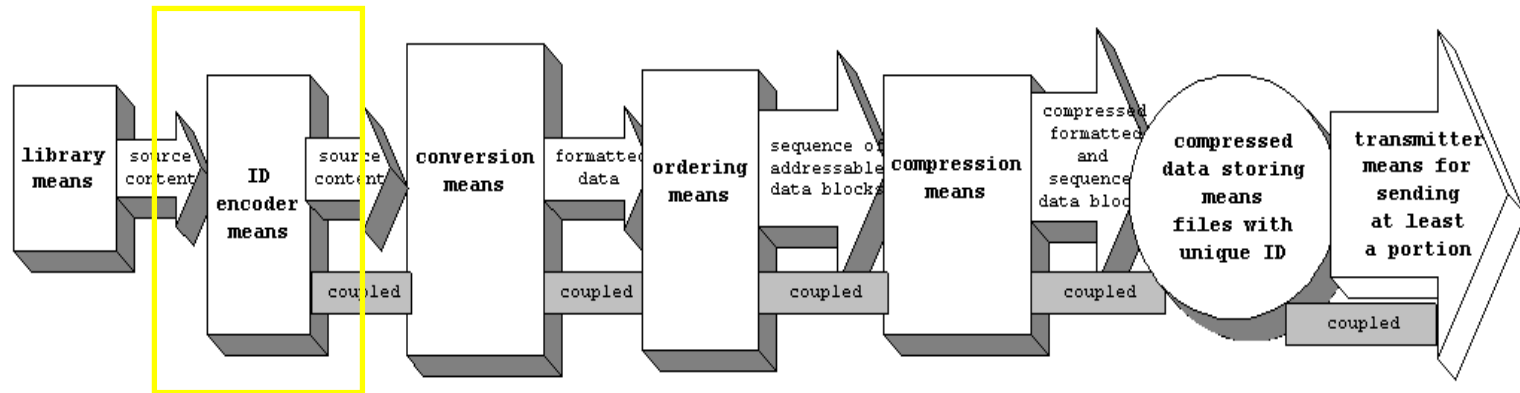
library means for storing items containing information :



The Internet website operator receives media from content providers. These content providers have a library of content available for the Internet website operator to use. Physical media (e.g., videotape) may also be produced by the Internet website operator. The Internet website operator maintains its own library to store the physical media it produces. The Internet website library and the content provider library are examples of a library means for storing items containing information.

Internet Website Operator Transmitting Video to Personal Computers Compared to the '992 Patent Claim 1:

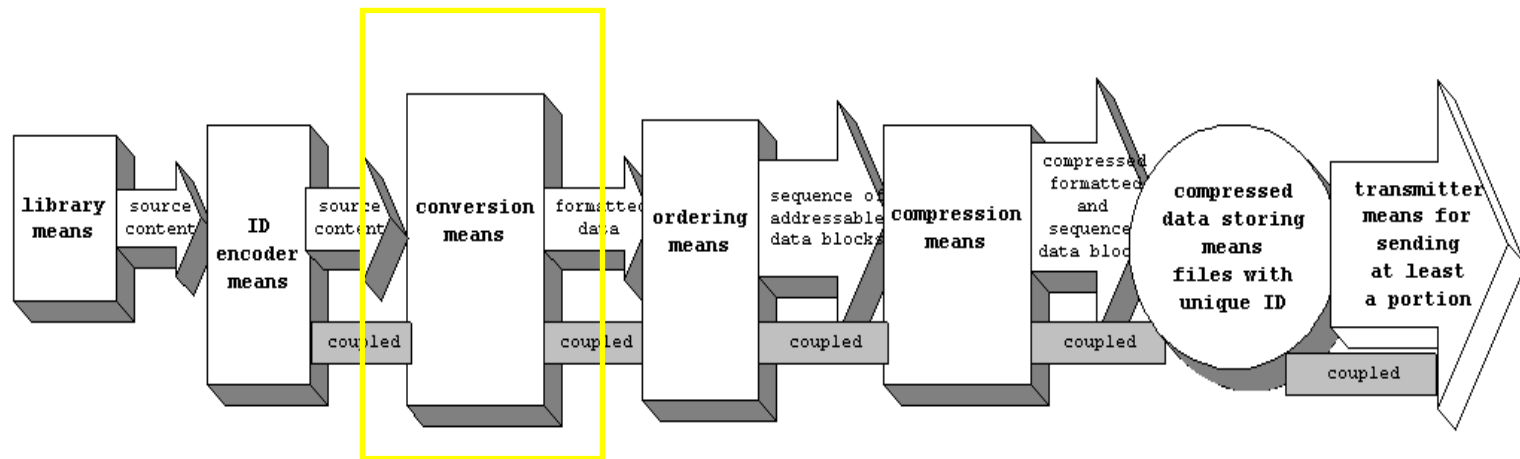
identification encoding means for retrieving the information in the items from the library means and for assigning a unique identification code to the retrieved information;



The physical media is digitized and compressed prior to distribution to customers. This digitization and compression may be done by the Internet website operator, or by an agent acting on the behalf of the Internet website operator. A tape operator(s) retrieves physical media (e.g., a videotape) from the library to be encoded. A unique file name will be used to identify the encoded music video on a server after it has been encoded. The tape operator(s) and the encoding software are one example of an identification encoding means for retrieving information and for assigning a unique identification code to the retrieved information.

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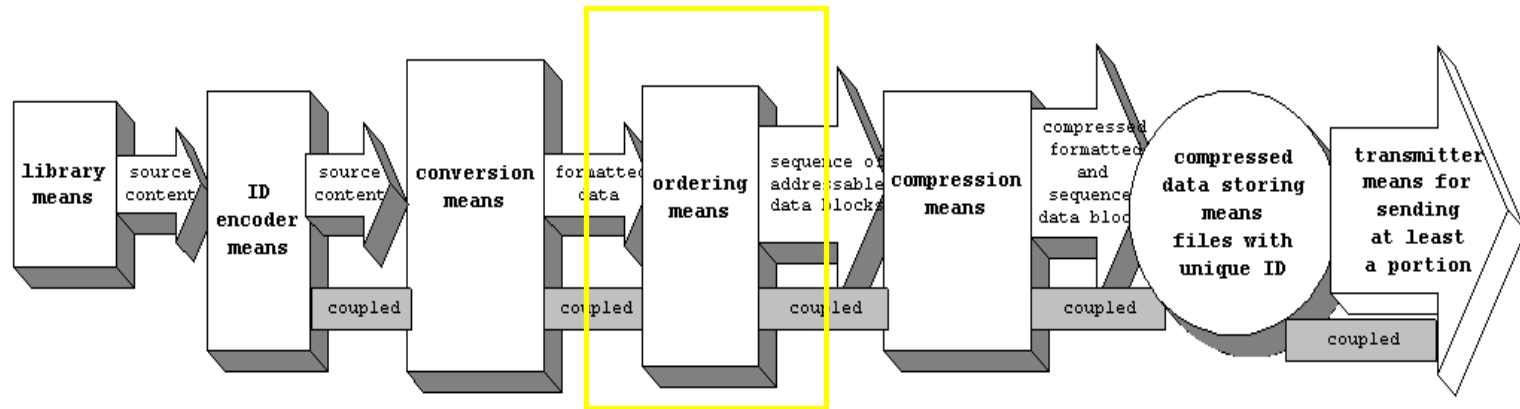
conversion means, coupled to the identification encoding means, for placing the retrieved information into a predetermined format as formatted data;



Physical media (e.g., a videotape) is placed in a tape player (i.e., an input receiver) where it is output from the player in either a digital or analog form. If in an analog form, the signal is applied to an analog input and converted to a standard digital format (such as an “AVI” file format) in an analog-digital converter. If in a digital form, the signal is input to a digital formatter and converted to a predetermined format (such as an “AVI” file format). The analog and/or digital receivers, converters, and formatters represent examples of a conversion means for placing retrieved information into a predetermined format as formatted data.

Internet Website Operator Transmitting Video to Personal Computers Compared to the '992 Patent Claim 1:

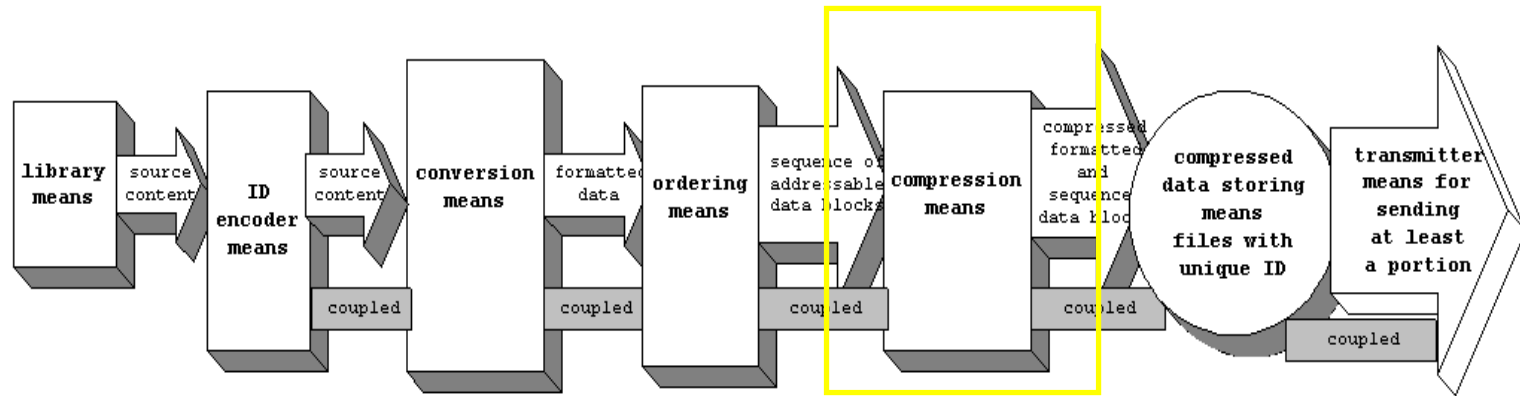
ordering means, coupled to the conversion means, for placing the formatted data into a sequence of addressable data blocks:



Video encoding methods organize frames into sequences of frames (data blocks) prior to compression. These frames are compressed and assigned relative time markers so that they are addressable by presentation time. The portion of the encoder that organizes the frames into sequences by assigning relative time markers (e.g., presentation time) is an example of an ordering means for placing the formatted data into a sequence of addressable data blocks.

Internet Website Operator Transmitting Video to Personal Computers Compared to the '992 Patent Claim 1:

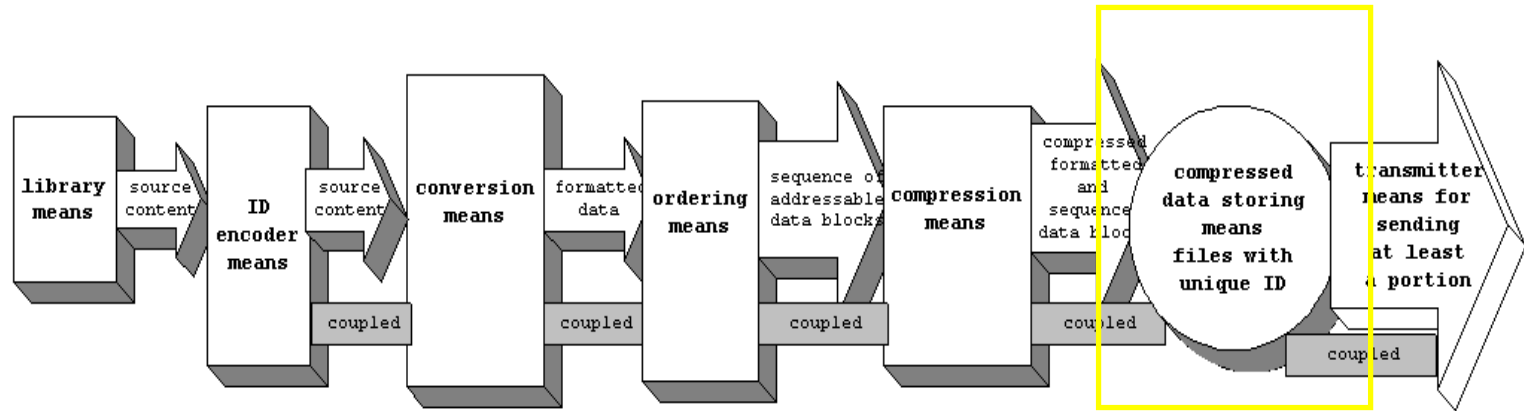
compression means, coupled to the ordering means, for compressing the formatted and sequenced data blocks;



Video encoders compress video by operating on individual video frames and sequences of video frames. An Internet website operator, or an agent acting on their behalf, uses encoders by Apple, Microsoft, and/or Real to encode the media. Encoders are examples of compression means.

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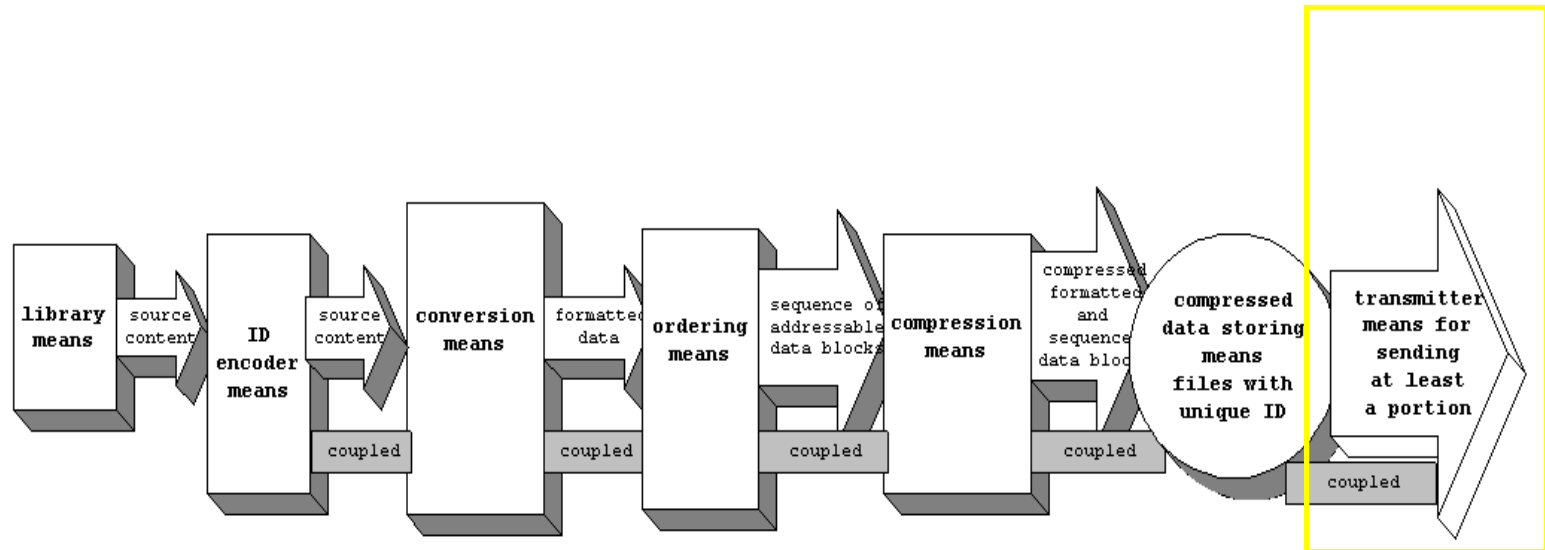
compressed data storing means, coupled to the data compression means, for storing as files the compressed, sequenced data blocks received from the data compression means with the unique identification code assigned by the identification encoding means; and



Once compressed, media is delivered from the content encoding location to the Internet website operator's distribution location where it is stored as files on an array of storage devices. Each file stored on the storage device is stored with its unique identification code. This distribution location may be managed by the website operator or by a content delivery network (CDN) or hosting provider acting on the behalf of the website operator. An array of storage devices is an example of a compressed data storing means.

Internet Website Operator Transmitting Video to Personal Computers Compared to the '992 Patent Claim 1:

transmitter means, coupled to the compressed data storing means, for sending at least a portion of one of the files to one of the remote locations.



The Internet website operator transmits (e.g., streams, downloads) the video from a video server connected to the array of storage devices over the Internet to the personal computers of its users. The video server and its infrastructure is an example of a transmitter means.