ABSTRACT OF THE DISCLOSURE

A picture transmission system capable of establishing arbitrary picture connections with picture inputting units exceeding in number channel resources of a transmission medium for multiplexing and transmitting video information taken through the picture inputting units. A picture sending state storage unit provided corresponding to each of the picture inputting units virtually retains channel resources whose number equals the number of picture outputting units to which the picture inputting units are in connection. For picture connection switching from one picture outputting unit to a different picture inputting unit, the picture sending state storage unit gives its channel resource to the different picture inputting unit. The system is provided with a picture connection managing unit for controlling the picture connections between the picture inputting units and the picture outputting units. The picture connection managing unit accepts a picture connection request to perform the centralized management of channel resources of the transmission medium to allow dynamic channel resource allocation. Under control of the picture connection managing unit, the picture connection between the picture inputting unit and the picture outputting unit takes place through an allocated channel resource.

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