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## United States Patent [19]

#### Baker

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TELECONFERENCING IMAGING SYSTEM WITH AUTOMATIC CAMERA STEERING

[75] Inventor: Robert G. Baker, Delray Beach, Fla.

[73] Assignee: International Business Machines

Corporation, Armonk, N.Y.

[21] Appl. No.: 496,742

Jun. 30, 1995 [22] Filed:

### Related U.S. Application Data

[63]	Continuation-in-part of Ser. No. 281,331, Jul. 27, 1994, Pat. No. 5.508,734.

[51] Int. Cl.<sup>6</sup> ...... H04N 7/18

**U.S. Cl.** ...... 348/36; 348/15; 348/53; 348/214; 348/580

348/53, 580; H04N 7/18

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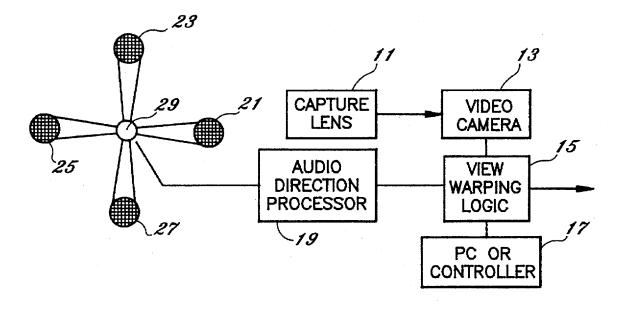
Primary Examiner-Howard W. Britton

Attorney, Agent, or Firm-Richard A. Tomlin; John C. Black; Malin, Haley, DiMaggio & Crosby, P.A.

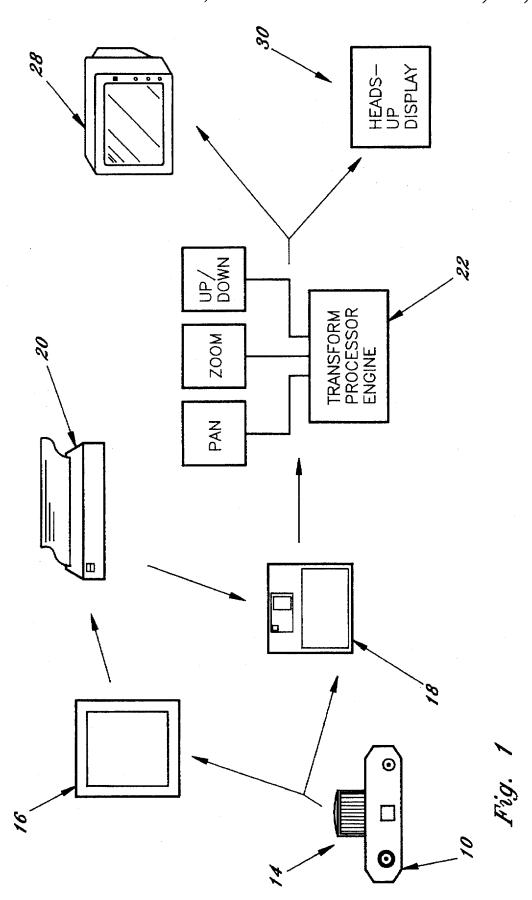
**ABSTRACT** 

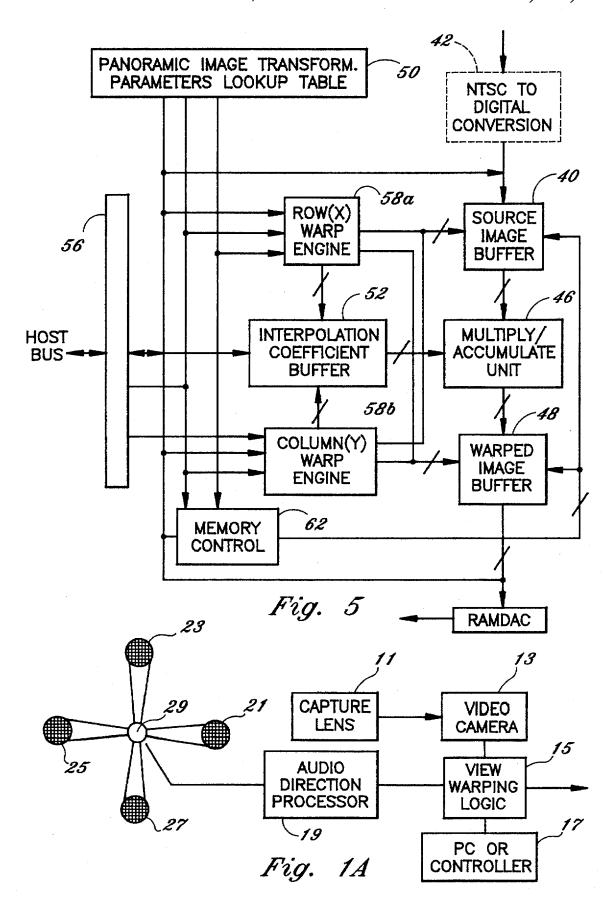
An automatic, voice-directional video camera image steering system specifically for use for teleconferencing that electronically selects segmented images from a selected panoramic video scene typically around a conference table so that the participant in the conference currently speaking will be the selected segmented image in the proper viewing aspect ratio, eliminating the need for manual camera movement or automated mechanical camera movement. The system includes an audio detection circuit from an array of microphones that can instantaneously determine the direction of a particular speaker and provide directional signals to a video camera and lens system that provides a panoramic display that can electronically select portions of that image and, through warping techniques, remove any distortion from the most significant portions of the image which lie from the horizon up to approximately 30 degrees in a hemispheric viewing area.

#### 14 Claims, 7 Drawing Sheets

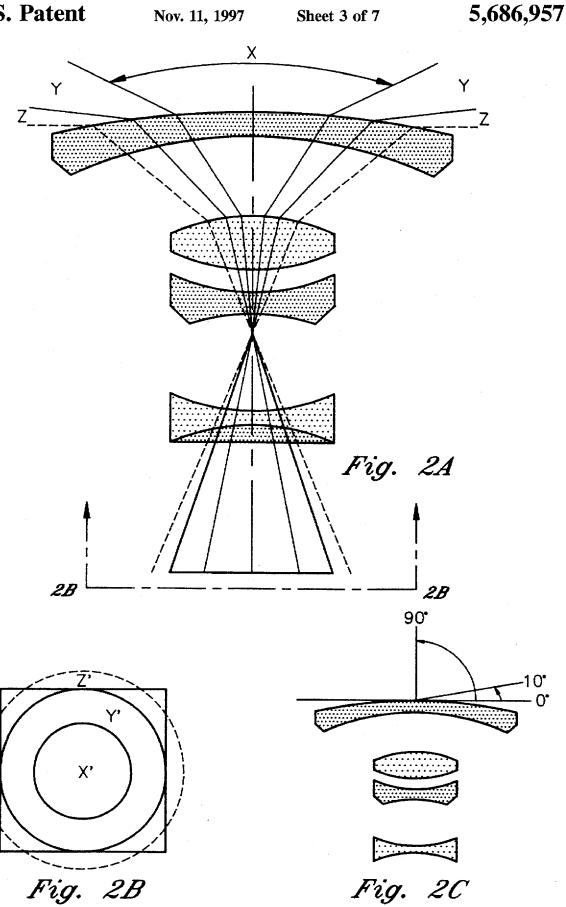


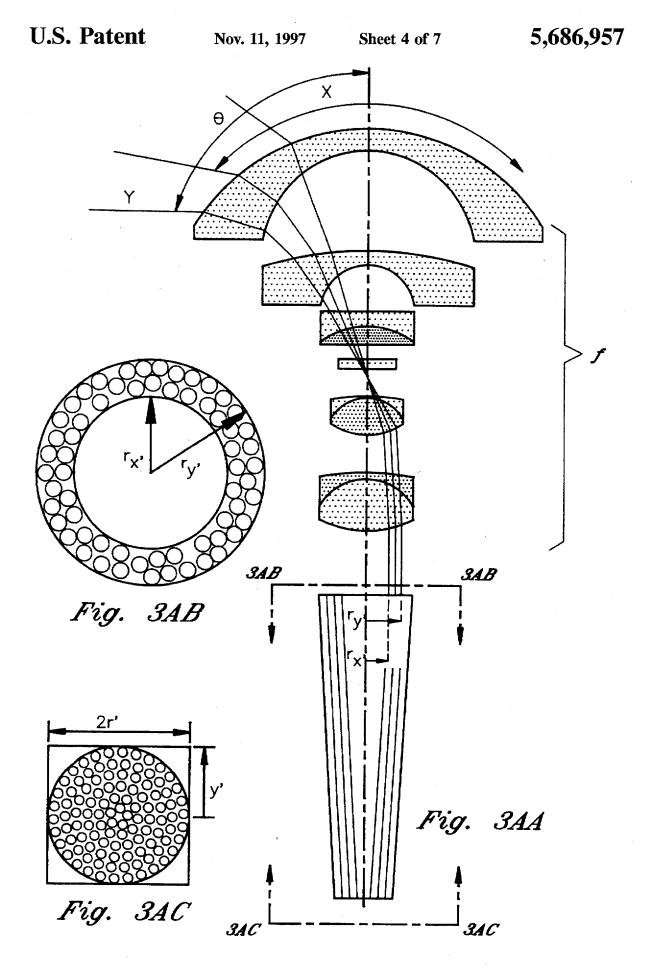












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