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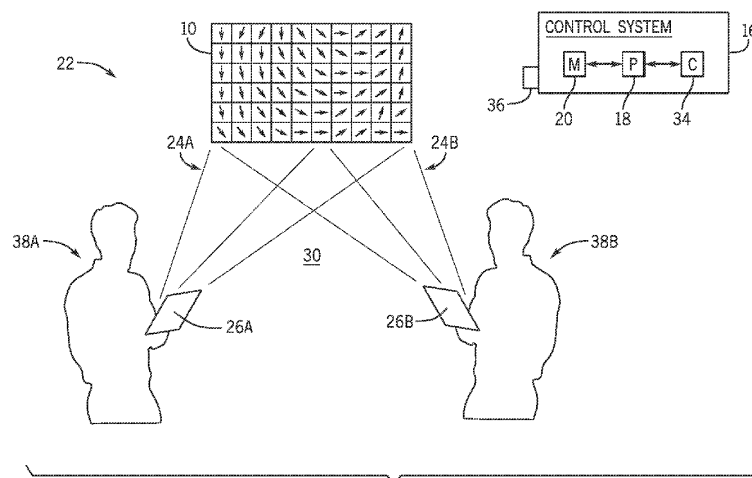


FIG. 3

(57) Abstract: Systems and methods presented herein include light field displays (10) configured to display primary autostereoscopic images and to simultaneously project light rays (24) toward display devices (26, 42) (e.g., either reflective devices (26) or cameras (42)) to display secondary autostereoscopic images via the display devices (26, 42). The light rays (24) projected from the light field displays (10) are controlled by a control system (16) based at least in part on positional tracking data (e.g., position, orientation, and/or movement) of the display devices (26, 42) and/or of a portion of humans (38) associated with the display devices (26, 42), which may be detected via sensors (28) of the display devices (26, 42) and/or via cameras (36) disposed about a physical environment (30) within which the display devices (26, 42) and the humans (38) are located. Specifically, the control system (16) calculates light field vector functions for light rays (24) to be projected toward each individual display device (26, 42) based at least in part on positional tracking data for that particular display device (26, 42) and/or its associated human (38).

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