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(54) **DIRECT PROJECTION MULTIPLEXED LIGHT FIELD DISPLAY**

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(57) **ABSTRACT**

A multiplexed light field projector device and a multiplexed light field display to output a light field image is described. The projector has a projector base with a projection optical system configured to output light rays to form a projected image, a collimating optical system configured for collimation of the projected image light rays to form a second projected image, which is directed to a display optical system to produce a light field image. Light field projector devices or alternative projector devices may be used individually or in combination with one or more other projectors which can be arranged to form a multiplexed direct projection light field display. The arrangement of projector devices may have an individual or shared display optical system.