

Optical beam former and maskless character projectorAbstract

5 An optical beam former for generating an emerging light beam from an incident light beam includes a condenser lens array for receiving the incident light beam, wherein the condenser lens array includes a plurality of condenser lenses. The optical beam former includes a projection lens array arranged parallel to the condenser lens array for emitting the incident light beam, wherein the projection lens array comprises a plurality of projection lenses. The
10 condenser lens array comprises at least one cluster of condenser lenses, wherein each condenser lens of the cluster comprises an aperture adapted to a subarea of an overall pattern projected by the optical beam former to provide, for the projection lens array, part of the incident light beam associated with the subarea of the overall pattern. A combination of the apertures of the condenser lenses is adapted to the overall pattern.

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Fig. 1a