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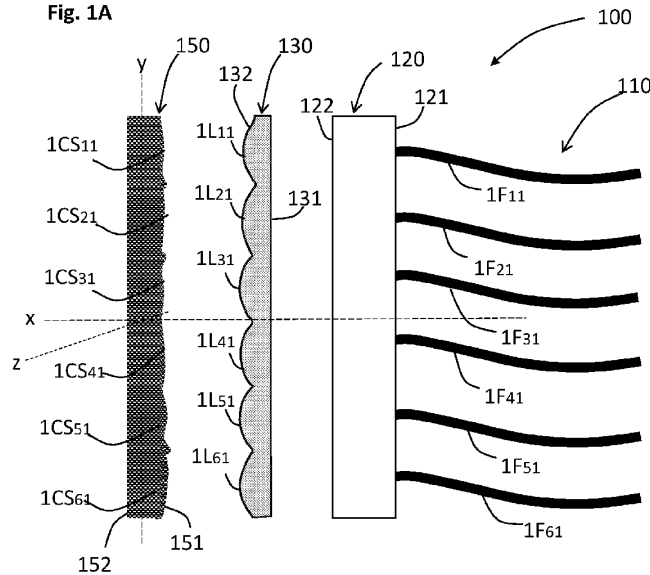
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(54) Title: CORRECTION OPTICAL ELEMENTS FOR COHERENT BEAM COMBINING SYSTEMS AND SYSTEMS AND
METHODS FOR COHERENT BEAM COMBINING USING SAME

Fig. 1A



(57) Abstract: A correction optical element (COE) for a multi-channeled coherent beam combining (CBC) system that uses a fiber array comprising multiple optical fibers and a single collimation array comprising multiple collimating lenses, for coherent combining of a corresponding array of optical beams directed through the fiber array. The COE is configured for customized and segmented correction of collimation-based optical aberrations, caused at least due to misalignments between each corresponding optical fiber's Lij output end and a center of a corresponding collimating lens Lij.

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