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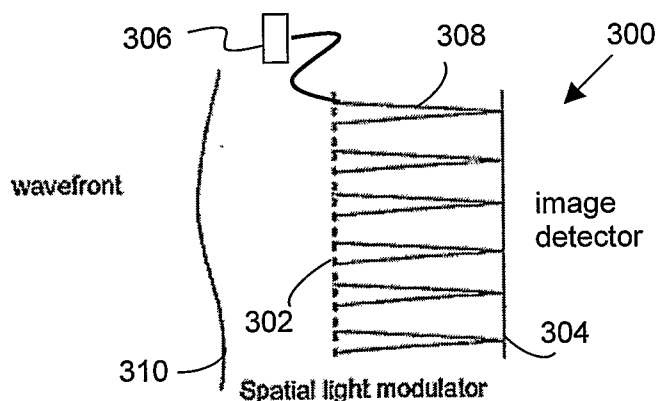
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(54) Title: OPTICAL WAVEFRONT SENSOR



(57) Abstract: An optical wavefront sensor comprising a light manipulation device (302); a detector (304) for detecting light signals having been subjected to the light manipulation device (302); and a controller (306) coupled to the manipulation device (302), the controller controlling the manipulation device to function as a lenslet array, each lenslet of the array focussing an incident portion of a wavefront (310) onto the detector. The controller may also control the distance between the detector (304) and the manipulation device (302). The spatial resolution of Shack-Hartmann sensors can be increased by digitally scanning the wavefront with the manipulation device. The wavefront sensing can

be dynamic adaptive by setting of parameters of the manipulation device.

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