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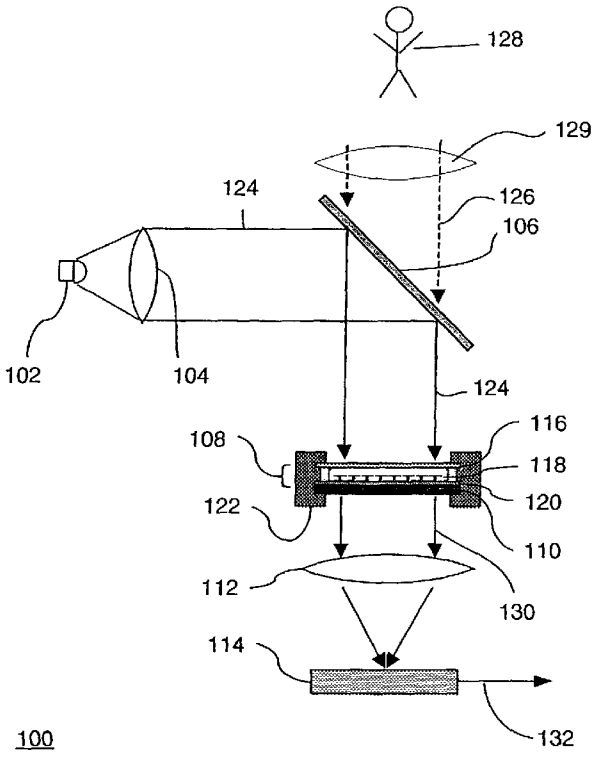
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(54) Title: INFRARED CAMERA SYSTEM



(57) Abstract: An IR camera system includes an array of thermally-tunable optical filter pixels, an NIR source and an NIR detector array. The IR camera system further includes IR optics for directing IR radiation from a scene to be imaged onto the array of thermallytunable optical filter pixels and NIR optics for directing NIR light from the NIR source, to the filter pixels and to the NIR detector arrays. The NIR source directs NIR light onto the array of thermally-tunable optical filter pixels. The NIR detector array receives NIR light modified by the array of thermally-tunable optical filter pixels and for produces an electrical signal corresponding to the NIR light the NIR detector array receives. Said thermally-tunable optical filter pixels comprise a thermally tunable thin film interference coating.

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