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- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

(54) Title: **HANDHELD OBJECT CHARACTERISTIC ASSESSMENT SYSTEM AND METHOD**

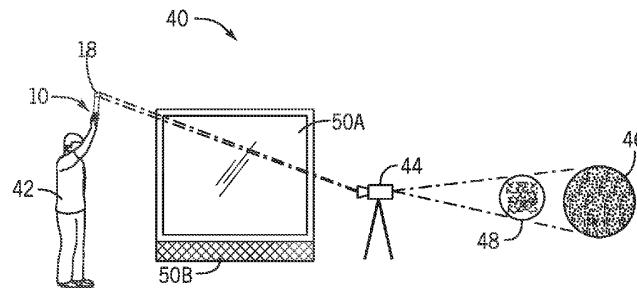


FIG. 3

(57) Abstract: A handheld object includes a reference element having an angle-identifying element that is captured differently in images depending on a viewpoint of a camera. The angle-identifying element generates a first characteristic in a first captured image from a first viewpoint of the camera, and a second characteristic in a second captured image from a second viewpoint of the camera. Based on the characteristic generated by the angle-identifying element in a captured image, the orientation of the handheld object is determined. A pointing target of the handheld object is also determined based on the orientation of the handheld object and determining the position of the reference element. The reference element also includes a device identifier. The camera captures a first portion of the device identifier a first image, and a second portion of the device identifier in a second image. The portions are combined together to form the complete device identifier.

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