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(54) Title of the Invention: Six degree-of-freedom laser tracker that cooperates with a remote projector to convey information

Abstract Title: Six degree-of-freedom laser tracker that cooperates with a remote projector to convey information

(57) A method of conveying first information to a user of a coordinate measurement device by projecting a first pattern with a first target projector, the method including the steps of: providing the first target projector having a target-projector frame of reference and including a body, a first retroreflector, and a projector, providing the coordinate measurement device having a device frame of reference, sending the first beam of light from the coordinate measurement device to the first retroreflector; receiving the second beam of light from the first retroreflector; measuring the orientational set and translational set, the translational set based at least in part on the second beam of light; selecting the first information to be conveyed, the first information selected from the group consisting of a position on the object, a plurality of positions on the object, a direction indicated by a moving pattern, a message that includes one or more symbols or alphanumeric characters, a hidden feature, a measured object characteristic, a modeled characteristic, a magnified representation of surface characteristics, a pattern having meaning according to a rule, and combinations thereof; determining the first pattern of light corresponding to the first information; storing the first pattern; and projecting from the projector the first pattern of light onto the object based at least in part on the translational set and the orientational set.

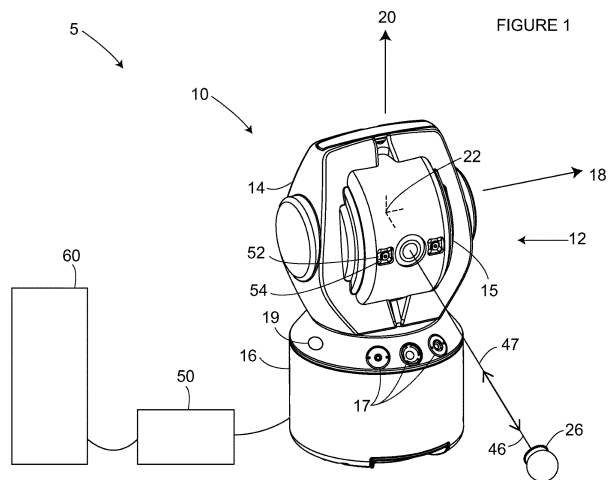


FIGURE 1

GB 2504639 A continuation

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