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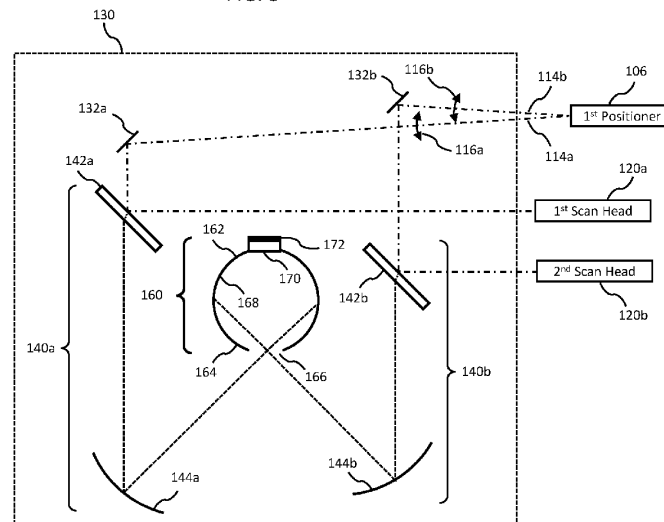
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(54) Title: LASER PROCESSING APPARATUS INCLUDING LASER SENSOR SYSTEM AND METHODS OF MEASUREMENT OF BEAM CHARACTERISTICS

FIG. 3



(57) Abstract: An optical apparatus is disclosed. In one embodiment, the apparatus includes a photodetector apparatus having a photodetector, a first optical component arranged to direct a first beam path along which a beam of laser energy is propagatable to a first optical train configured to direct the first beam path to the photodetector, and a second optical component arranged to direct a second beam path along which the beam of laser energy is propagatable to a second optical train configured to direct the second beam path to the photodetector. The first optical train and the second optical train include a partially-transmissive mirror and a curved mirror configured to allow a first portion of the beam of laser energy to propagate therethrough, thereby imaging an AOD pivot point at a location relative to the detector apparatus. The photodetector may be positioned in a detection port of an integrating sphere.

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