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(54) Title: SYSTEMS AND METHODS FOR CONTROLLING LASER TREATMENTS USING REFLECTED INTENSITY SIGNALS

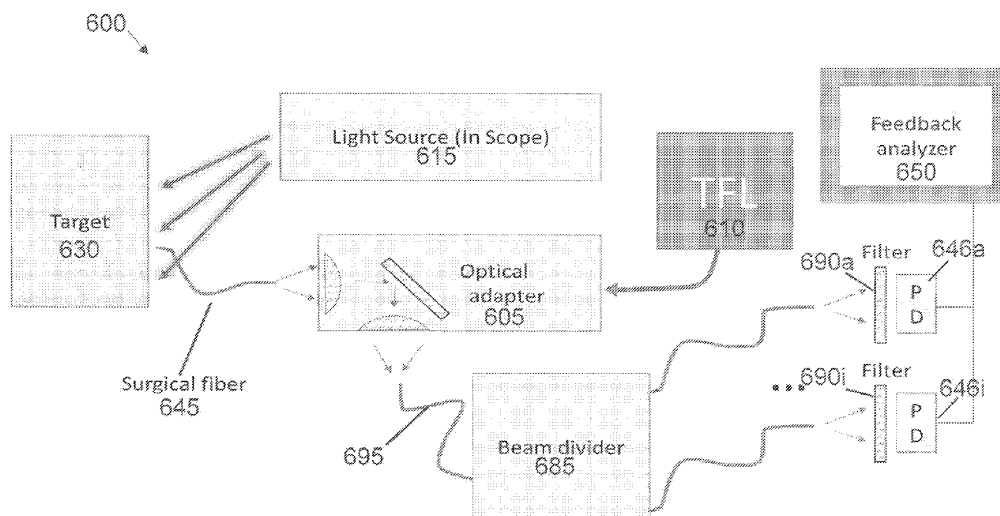


FIG. 20

(57) Abstract: A method for controlling a surgical laser system that includes providing a surgical fiber configured to receive light reflected from a target in a surgical treatment area and deliver laser radiation from a treatment laser source to a treatment target, and providing a computing device configured to couple with at least two photodetectors, each photodetector configured to detect an intensity of reflected light from the target in a different selected wavelength band, the computing device further configured to: receive the reflected light intensity in at least two selected wavelength bands, generate optical data corresponding to the reflected, light intensity, and identify the target as a treatment target or a non-treatment target based at least in part on the optical data and a predetermined calibration based on at least one known target.

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