

ABSTRACT

PROTECTIVE FILM DETECTING METHOD FOR LASER PROCESSING

Disclosed herein is a protective film detecting method of detecting the formed condition of a protective film formed on the front side of a workpiece. The protective film detecting method includes a fluorescence intensity measuring step of forming a plurality of reference protective films having different thicknesses on the front sides of a plurality of reference workpieces, next applying excitation light absorbable by an absorbing agent contained in each reference protective film to each reference protective film, and next measuring the intensity of fluorescence emitted from the absorbing agent due to the absorption of the excitation light, and a threshold deciding step of deciding a threshold of the fluorescence intensity corresponding to a desired one of the different thicknesses of the reference protective films according to the fluorescence intensity measured above.

(Figure 5)