

ABSTRACT

LASER PROCESSING APPARATUS

A laser beam irradiation unit of a laser processing apparatus includes a pulse laser oscillator, a condenser which converges and irradiates a pulse laser beam upon a workpiece held on a chuck table, a dichroic mirror disposed between the pulse laser oscillator and the condenser, a strobo flash irradiation unit which irradiates light on a route of the dichroic mirror and the condenser, a beam splitter disposed between the strobo flash irradiation unit and the dichroic mirror, and an image pickup unit disposed on the route of the light split by the beam splitter. A control unit renders the strobo flash irradiation unit and the image pickup unit operative in a timed relationship with the pulse laser beam oscillated from the pulse laser beam oscillator and irradiated upon the workpiece held on the chuck table and detects a processed state on the basis of an image signal from the image pickup unit.

(Figure 2)