

ABSTRACT OF THE DISCLOSURE

A laser processing method for performing laser ablation process on a work piece by radiating laser beam on the work piece comprises the step of forming simultaneously a plurality of process shapes arranged at a predetermined interval by use of laser beam of plural pulses having extremely large spatial and temporal energy density radiated from a laser oscillator as the laser beam oscillating at the pulse radiation time of one picosecond or less. With the laser processing method thus structured, it is possible to perform a highly precise processing without creating by-product, as well as to fundamentally prevent the converted thermal energy from being accumulated on a work piece, such as resin, which causes the work piece to be fused or thermally expanded during the operation of laser processing.

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