

**LASER PROCESSING APPARATUS AND METHOD OF CORRECTING
CONVERGED SPOT POSITION**

ABSTRACT OF THE DISCLOSURE

A laser processing apparatus includes a laser beam applying mechanism for applying a laser beam to a workpiece held by a holding mechanism while keeping a converged spot of the laser beam in the workpiece, and a temperature detector for detecting a temperature of the holding mechanism or a temperature of an actuator of a moving mechanism that moves the holding mechanism in a processing feed direction. The laser beam applying mechanism has a converged spot position adjusting unit. The controller, depending on a temperature change detected by the temperature detector, controls the converged spot position adjusting unit to establish a position of the converged spot of the laser beam in a thicknesswise direction of the workpiece.

[Figure 1]