

ABSTRACT OF THE DISCLOSURE

An energy beam irradiation system enables a remarkable compact configuration while effectively irradiating an energy beam on a work.

The energy beam irradiation system includes an energy beam emission mechanism, first and second orbiting mechanisms. The energy beam emission mechanism emits an energy beam toward a predetermined irradiation region to irradiate at least one first work and at least one second work as objects. The first orbiting mechanism orbits the at least one first work along a predetermined first orbit including the irradiation region. The second orbiting mechanism orbits the at least one second work along a predetermined second orbit including the irradiation region. A first region enclosed by the first orbit and a second region enclosed by the second orbit are at least partially overlapped, as viewed from a direction perpendicular to ideal orbiting surfaces formed by the first and second orbits.

FIG. 1