

ABSTRACT

METHOD OF FORMING DENSIFIED LAYER IN SPRAY COATING, AND SPRAY COATING COVERING MEMBER

Provided is a method of forming a densified layer in a spray coating which forms a densified layer providing a sufficient effect while preventing generation of excessively large cracks and does not cause the increase of costs; also provided in a spray coating covering member. When a high-energy beam for remelting and resolidifying a coating composition of a surface layer (6) of an Al_2O_3 spray coating (5) is scanned over a surface (5a) of the Al_2O_3 spray coating (5), it is constituted with a precedent laser beam (20) precedently scanned in a scanning direction and a follow-up laser beam (21) subserviently scanned on the same trajectory as that of the precedent laser beam (20), and the precedent laser beam (20) is irradiated on to the surface (5a) of the Al_2O_3 spray coating (5) while scanning, and the follow-up laser beam (21) is superimposedly irradiated to an irradiation region (22) scanned with the precedent laser beam (20) while scanning to thereby densify the surface layer (6) of the irradiation region (22).