ABSTRACT

METHOD FOR IMPROVED CATHODIC ARC COATING PROCESS

A method of forming targets for cathodic arc deposition of alloy bond coats for turbine engines components consists of melting a base alloy containing aluminum and other metals, adding grain boundary strengthening alloy additions, and casting the melt to form a cylindrical billet that is subsequently sectioned into puck shaped targets. The grain boundary strengthening additions minimize intergranular fracture of the targets during high current operation of the arc coating process.

No Figure