ABSTRACT

ADDITIVE MANUFACTURED COMPONENT INCLUDING WITNESS LINES

A method of manufacturing an (AM) component includes generating a computer-aided design (CAD) model of target AM component having a target physical profile, and predicting deformation of a target area that is expected to realize deformation. The method further includes determining a pre-deformed profile of witness lines that are to be formed in the target area based on the predicted deformation of the target area and that are expected to deform into a target profile indicating the target physical profile is met. The method further includes performing an AM component build to build the AM component and form pre-deformed witness lines having the pre-deformed profile in the target area.

[Figure 2]