

APPARATUS AND METHOD FOR BLENDING ADDED MATERIAL WITH BASE MATERIAL ON A MANUFACTURED COMPONENT

ABSTRACT

The present relates to an apparatus and method for blending added material with base material on manufactured components. The apparatus comprises an abrasive device having an abrasive surface for removing exceeding added material, and a guide fixed to the abrasive device. The method determines a trajectory of the abrasive surface with respect to a manufactured component; determines which of a plurality of contact points of the guide shall be in contact with the manufactured component along the trajectory; actuates the abrasive device; and controls position and angle of the abrasive surface on the manufactured component along the trajectory, while keeping the determined contact point in contact with the manufactured component. A force is applied to the abrasive device when the abrasive surface is in contact with the manufactured component, and transferred when the guide gets in contact with the base material.

(Figure 5C)