SYSTEM AND METHOD FOR COMPONENT MATERIAL ADDITION

Abstract

A system is disclosed for depositing material on a component. The system includes a deposition device operatively coupled to a fiber optic Nd: YAG laser. The deposition device includes a focusing prism that focuses the Nd:YAG laser at a focal area on a bladed disk, where the focal area on the bladed disk is between two blades of the disk. The system further includes an imaging means that views the focal area of the component. The imaging means and the fiber optic Nd:YAG laser each are positioned in a substantially similar optical relationship to the focal area on the bladed disk. The system further includes an additive material delivery means that delivers additive material to the component at the focal area on the component.

Figure 1