

## METHODS FOR REPLACING A PORTION OF A COMBUSTOR DOME ASSEMBLY

### ABSTRACT

A method enables a portion of combustor dome assembly (38) to be replaced. The dome assembly includes at least one dome cup including at least one swirl cup (64) including a joint (140) that defines a slot (148) therein, and a deflector plate assembly (156) that is coupled to, and extends downstream from, the swirl cup, such that a portion of the deflector plate assembly is securely fixed within the joint slot. The method comprises cutting through an interface (190) formed between the deflector plate assembly and the joint slot, extending the cut (200) substantially between the deflector assembly and the joint slot through the at least one dome cup, removing the deflector plate assembly from the combustor dome assembly, and coupling a replacement deflector plate assembly within the combustor dome assembly that extends aft from the portion of the combustor dome assembly that is upstream from the cut.

Fig. 3