

SHAPING TOOL AND METHOD FOR SHAPING CURVED SURFACES ON WORKPIECES

ABSTRACT

A tool (10) for shaping curved surfaces (278, 282) on a workpiece (22), in particular upper curved surfaces (278, 282) of the forward and aft rails of a gas turbine engine shroud section (22). The shaping tool (10) includes a base member (14) for securing the workpiece (22) and a shaping member (18) movable relative to the base member (14) and having one shaping element (86, 94) for each curved surface (278, 282) of the workpiece (22). The shaping tool (10) also includes cooperating follower (74, 106) and guide members (30, 38) to guide the shaping member (18) through a path as the shaping member (18) is moved (258, 262) relative to the base member (14) such that each of the shaping elements (86, 94) of the shaping member (18) shape the respective curved surfaces (278, 282) of the workpiece (22). The tool (10) can be used in a method for shaping the curved surfaces (278, 282) of the workpiece (22) where the shaping member (18) is moved in a path such that each of the shaping elements (86, 94) of the shaping member (18) shape the respective curved surfaces (278, 282) of the workpiece (22) and repeating this step until the desired degree of shaping of the curved surfaces (278, 282) of the workpiece (22) is achieved.

Fig. 1



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