

ABSTRACT

FORGING DIE HEATING APPARATUSES AND METHODS FOR USE

A forging die (412', 414') heating or preheating apparatus (420) comprises a burner head (422) comprising a plurality of flame ports (426). The burner head (422) is oriented to compliment an orientation of at least a region of a forging surface of a forging die and is configured to receive and combust a supply of an oxidizing gas and a supply of a fuel and produce flames at the flame ports. The burner portion (432) can be movable with respect to the burner portion (432') to conform at least a portion of the burner head (422) to an orientation of the forging surface (416') of the forging die (410'). The plurality of flame ports (426) are thus configured to impinge the flames onto he forging surface (416', 418') of the forging die to substantially uniformly heat at least the region of the forging surface of the forging die.

FIG. 11