

GAS INJECTOR SYSTEM AND ITS FABRICATION

ABSTRACT OF THE DISCLOSURE

A gas injector system (20) includes a plenum (22) with a plenum opening (34) in the wall of the plenum (22). An injector (36) is positioned at a location overlying the plenum opening (34). The injector (36) includes an injector block (38) affixed to the exterior surface (26) of the plenum wall (24), a joint (40) between the injector block (38) and the plenum wall (24), and an angularly inclined injector passage (42) extending through the injector block (38) from an injector passage inlet (44) to an injector passage outlet (46). The injector block (38) is preferably brazed to the plenum wall (24) for high-temperature applications, or adhesively joined for low-temperature applications.

Fig. 1