

SINGLE CRYSTAL GROWTH SUSCEPTOR
ASSEMBLY WITH SACRIFICE RING

ABSTRACT

A susceptor assembly for supporting a crucible during a crystal growth process includes a susceptor base, a tubular sidewall connected to the susceptor base, and a removable sacrifice ring interposed between the susceptor base and the sidewall. Each of the susceptor base and the sidewall is formed of a carbon-containing material. The susceptor base has an annular wall and a shoulder extending radially outward from an outer surface of the annular wall. The sidewall has a first end that receives the annular wall to connect the sidewall to the susceptor base. The sacrifice ring has a first surface that faces the outer surface of the annular wall, a second surface that faces an interior surface of the sidewall, and a ledge extending outward from the second surface that engages the first end of the sidewall.

FIG. 3