

ABSTRACT

A single crystal furnace and a crystal ingot growth method are provided. The single crystal furnace includes a furnace body and a crucible assembly located in the furnace body, a reflector is arranged above the crucible assembly, a crystal ingot lifting area is arranged inside the reflector, and a water-cooling jacket is arranged between the crystal ingot lifting area and the reflector; in an axial direction of the water-cooling jacket, a temperature regulator tube is arranged between the water-cooling jacket and the reflector.

(Figure 1)