8. The single crystal pulling apparatus according to claim 7, wherein the tray retains at least the bottom portion of the quartz crucible.

9. The single crystal pulling apparatus according to claim 8, wherein the tray retains the bottom portion and the curved surface-shaped portion of the quartz crucible.

10. The single crystal pulling apparatus according to claim 9, wherein an outer peripheral surface of the tray and an outer peripheral surface of the straight trunk portion of the quartz crucible are substantially flush with each other.

11. A single crystal pulling apparatus according to claim 7, further comprising:

a crucible unit-heating device for heating the crucible unit,

the crucible unit-heating device comprising:

a heater disposed so as to surround an outer periphery of the crucible unit; and

a cylindrical-shaped interposed member interposed between the crucible unit and the heater, the interposed member made of a carbonaceous material and disposed so as to surround the outer periphery of the crucible unit.

12. The single crystal pulling apparatus according to claim 11, wherein the interposed member is disposed so as to be spaced with a microgap from the quartz crucible.

13. A low heat conductive member used for suppressing heat conduction from the crucible to the crucible rotating shaft in the single crystal pulling apparatus according to claim 1, ~~characterized by being interposed at least one of on a joint surface between the crucible and the tray and on a joint surface between the tray and the crucible rotating shaft, and being used for suppressing heat conduction from the crucible to the crucible rotating shaft, and~~

~~further~~ characterized by comprising a one-dimensional carbon fiber-reinforced carbon composite material or a two-dimensional carbon fiber-reinforced carbon composite material, and

~~being provided as a separate body both from the tray and from the crucible rotating shaft,~~

having a ~~tabular~~ flat shape~~, and~~

~~being disposed so as to form the gap portion~~.