

SINGLE CRYSTAL PULLING APPARATUS AND LOW HEAT CONDUCTIVE MEMBER USED FOR SINGLE CRYSTAL PULLING APPARATUS

ABSTRACT

5 A single crystal pulling apparatus (1) has a quartz crucible (2) for accommodating silicon melt (3), a graphite crucible (4) for retaining the quartz crucible (2), a tray (5) for securing and holding the graphite crucible (4) from below, and a crucible rotating shaft (6) for supporting the tray (5) from below and for elevating and lowering the tray (5) and the crucibles (2), (4) while rotating them. A low heat
10 conductive member (10) is interposed on a joint surface between the tray (5) and the crucible rotating shaft (6). The low heat conductive member (10) is formed in a substantially tubular shape, and is interposed in such a manner that a protruding portion of the crucible rotating shaft (6) is inserted through a center hole of the low heat
15 conductive member (10). Thereby, a gap portion (11) is formed below a bottom portion of the tray (5).

Figure 1