Abstract

Device for producing a single crystal composed of silicon by remelting granules

The invention relates to a device for producing a single crystal composed of silicon by remelting granules, comprising a rotating plate composed of silicon having a central opening and having a tubular extension composed of silicon that encloses the opening and extends below the plate;
a first induction heating coil, arranged above the plate, for melting granules; and
a second induction heating coil, arranged below the plate, for crystalizing the molten granules, wherein the second induction heating coil has, on its side lying opposite the plate composed of silicon, a lower layer composed of a magnetically permeable material and an upper layer, in which there is at least one cooling channel for conducting a coolant.

Fig. 1