Polyethylene Glycol 400 (available from Dow Chemical Co.). The coating composition may include at least about 0.5%, at least about 2%, at least about 5%, at least about 10% or even at least about 15% by weight stabilizer. In various embodiments, the composition includes from about 0.5% to about 20% by weight stabilizer, from about 0.5% to about 10%, from about 0.5% to about 8%, or from about 2% to about 8% by weight stabilizer. In some embodiments, the coating composition includes about 5.6% by weight stabilizer. In some embodiments, the composition does not include a stabilizer. The composition may include more than one stabilizer with the total amount of stabilizer in the composition being as described above.

[0042] Non-limiting examples of techniques for applying the coating composition having inert material particles suspended in a liquid solution include brushing or aerosol spraying. In brushing applications, the coating composition may be painted with a brush (e.g., a foam brush) onto the interior surface 134 of the susceptor 118. In aerosol spraying applications, the coating composition may be applied onto the interior surface 134 of the susceptor 118 using a pressurized spray gun. In general, the coating composition when applied by aerosol spraying has a lower fluid viscosity than when applied by the brushing technique, to enable effective spraying of the coating composition. In this regard, the coating composition may include a lesser amount of inert material particles when applied by aerosol spraying than when applied by brushing. For example, the brushable coating composition may include greater than 30% by weight inert material particles, such as from about 30% to about 50% by

borate, H_3BO_3), alumina (aluminum dioxide, Al_2O_3), yttria (yttrium oxide, Y_2O_3), zirconia (ZrO_2), aluminum nitride (AlN), and lanthana (lanthanum oxide, (La2O3)).

[0051] The sintering additive is included in an amount that is suitable to achieve targeted densification properties of the coating 140. In this regard, the amount of the sintering additive included in the coating 140 may vary considerably to enable a wide range of achievable strength properties of the coating 140. The targeted densification properties may be determined by an acceptable amount of cross-contamination of inert material (e.g., boron nitride) in the silicon melt during a pulling process, which in turn may depend on a targeted resistivity of the ingots and wafers sliced from these ingots.

[0052] In some examples, the ingots may have a high targeted resistivity. High resistivity ingots may have a targeted resistivity of at least about 5000 ohm-cm, at least about 7500 ohm-cm, at least about 10,000 ohm-cm, or even at least about 100,000 ohm-cm. In these examples, cross-contamination is suitably minimized as unwanted dopants that are introduced into the melt may have a relatively greater effect on resistivity fluctuations. Accordingly, in these examples, the sintering additive may be included in an amount sufficient to form an at least moderately bonded film of inert material (e.g., boron nitride) when coating 140 is sintered.

[0053] In some examples, the ingots may have a relatively lower targeted resistivity. For example, the ingots may have a targeted resistivity of less than about