

MOLD FOR CASTING POLYCRYSTALLINE SILICON INGOT, AND SILICON
NITRIDE POWDER FOR MOLD RELEASE MATERIAL THEREOF, SLURRY
CONTAINING SILICON NITRIDE POWDER FOR MOLD RELEASE LAYER
THEREOF AND MOLD RELEASE MATERIAL FOR CASTING THEREOF

Abstract

Provided is a mold for casting a polycrystalline silicon ingot, and a silicon nitride powder for a mold release material thereof, a slurry containing a silicon nitride powder for a mold release layer thereof, and a mold release material for casting thereof, which can be obtained in low cost and have excellent adhesion to a mold, and prevents the formation of fragments and damage when releasing a solidified silicon ingot, forming a silicon ingot with high quality and in high yield. That is, the present invention relates to a silicon nitride powder for a mold release material of a mold for casting a polycrystalline silicon ingot characterized in that the percentage of primary particles of granular crystals monodispersed in powders is not less than 95% in terms of the area ratio calculated by analysis of an SEM image.

(FIG. 2)