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Patent Application

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Quartz glass crucible and method for manufacturing the same

Abstract

A known quartz glass crucible for crystal pulling includes a crucible wall, comprising an outer layer which in an outer region is provided with a crystallization promoter that effects crystallization of quartz glass with formation of cristobalite when the quartz glass crucible is heated during intended use in crystal pulling. Starting therefrom, to provide a quartz glass crucible with a long service life, it is suggested that the crystallization promoter should contain a first component acting in quartz glass – additionally to silicon – as a network former and a second, alkali-metal-free component acting in quartz glass as a breakpoint former, and that the said components should contain a doping region (8) in a layer thickness of more than 0.2 mm in the outer layer (6) and should be entrapped therein.