Claims

[Claim 1]

A screen plate comprising

a plate frame, and

a screen gauze formed of warp and weft fibers woven in a predetermined weaving texture, wherein

the screen gauze is stretched on the plate frame under application of a predetermined tensile force,

the warp and the weft fibers are elongated by the predetermined tensile force applied to the screen gauze,

a thickness of the screen gauze stretched on the plate frame is reduced to 88% or less of a thickness of the screen gauze under application of no tensile force due to an elongation of the warp and the weft fibers,

a diameter of each of the warp and the weft fibers before weaving is 33 μm or less,

each of the warp and the weft fibers is made of a liquid crystal polymer, and

the predetermined tensile force is 21 N/cm to 36 N/cm.

[Claim 2]

The screen plate according to claim 1, wherein the thickness of the screen gauze stretched on the plate frame is reduced to 70% or more of the thickness of the screen gauze under application of no tensile force.

[Claim 3]

The screen plate according to claim 1, wherein the warp and weft fibers are monofilaments.

[Claim 4]

A method for manufacturing a screen plate, comprising

applying a predetermined tensile force to a screen gauze formed of warp and weft fibers woven in a predetermined weaving texture, to elongate the warp and the weft fibers by the predetermined tensile force applied to the screen gauze and stretch the screen gauze on a plate frame, and

allowing a thickness of the screen gauze stretched on the plate frame to be reduced to 88% or less of a thickness of the screen gauze under application of no tensile force due to an elongation of the warp and the weft fibers, wherein

a diameter of each of the warp and the weft fibers before weaving is 33 μm or less,

each of the warp and the weft fibers is made of a liquid crystal polymer, and

the predetermined tensile force is 21 N/cm to 36 N/cm.