

ABSTRACT

PROCESS FOR PRODUCTION OF GLASS FIBER FABRIC
HAVING SILICA MICROPARTICLES ADHERED THEREON,
5 GLASS FIBER FABRIC HAVING SILICA MICROPARTICLES
ADHERED THEREON, AND FIBER-REINFORCED MOLDED
RESIN ARTICLE

10 A production process for producing a glass fiber fabric that has
good smoothness and is excellent in resin impregnation property is
provided.

When in a weaving step, glass fiber yarns are woven to obtain a
glass fiber fabric, first, in an attachment step, the glass fiber fabric is
immersed in an aqueous dispersion of silica microparticles to attach the
15 silica microparticles on the glass filament surfaces of the glass fiber
fabric to obtain a fabric having silica microparticles attached thereon.
Next, in a fiber-opening step, a fiber-opening treatment is provided to
the fabric having silica microparticles attached thereon to obtain a
fiber-opened fabric in which the warp and weft of the fabric having
20 silica microparticles attached thereon are widened. Next, in a heating
step, the fiber-opened fabric is heat-treated in a heating furnace or the
like to fuse some or all of the silica microparticles attaching on the
fiber-opened fabric, on the glass filament surfaces to obtain a glass fiber
fabric having silica microparticles adhered thereon.

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Figure 1