

ABSTRACT

METHOD FOR PRODUCING METAL FILTERS

5 A method for producing a metal filter comprising a lamination
step of laminating a photosensitive resin composition on a copper
substrate to form a photosensitive resin composition layer, an exposure
step of irradiating a predetermined portion of the photosensitive resin
composition layer with an active light and light-curing the exposed
10 portion to form a cured material of the photosensitive resin composition,
a development step of removing a portion other than the cured material
of the photosensitive resin composition of the photosensitive resin
composition layer by development to form a resist pattern composed of
the cured material of the photosensitive resin composition on the copper
15 substrate, a plating step of metal plating the resist-patterned copper
substrate to form a plated layer, a dissolution step of removing the
copper substrate with chemical dissolution to obtain a structure
composed of the plated layer and the cured material of the
photosensitive resin composition, and a stripping step of removing the
20 cured material of the photosensitive resin composition from the
structure to obtain the plated layer, wherein the plated layer is the metal
filter is useful because it is possible to produce a metal filter in which
there are not damages such as wrinkles, folds, scars, and curls and
deformation of fine through-holes.

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FIG. 1