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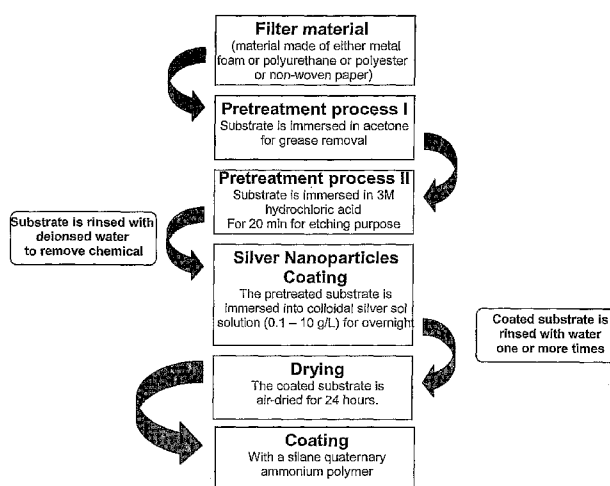


Figure 1

(57) Abstract: A method of preparing an antimicrobial air filter comprising the steps of: soaking a porous material in a silver nanoparticle colloid; and coating the porous material embedded with silver nanoparticles with a silane quaternary ammonium polymer such that the loss of silver nanoparticles is reduced. The resultant filter may be used in an air treatment device.

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