

METHOD FOR MANUFACTURING FILTER MEMBRANE FOR INHIBITING MICROORGANISMS

ABSTRACT OF THE DISCLOSURE

A method for manufacturing a filter membrane for inhibiting
5 microorganisms includes the following steps: obtaining a nano-zinc precursor
and dissolving it into water, adding at least one reducing agent and interfacial
agent to the water, thereby reducing zinc ions of the nano-zinc precursor to
zinc particles so as to form liquid having nano-zinc particles; respectively
placing the liquid having nano-zinc particles and a polymer material into
10 plastic masterbatch process equipment, respectively volatilizing the fluid
having nano-zinc particles and polymer material through the plastic
masterbatch process equipment, performing air extraction and mixing by the
plastic masterbatch process equipment, and adding at least one grafting agent
to perform a mixed graft link, allowing the nano-zinc particles and polymer
15 material to be linked together stably so as to form a plastic masterbatch having
nano-zinc particles; and making the plastic masterbatch into a filter membrane
through film making equipment.

FIG. 1