

HOLLOW POROUS MEMBRANE AND PROCESS FOR PRODUCING THE SAME

ABSTRACT

A hollow porous membrane with a reduced cost and excellent separation
5 characteristic, water permeability, and mechanical strength and a process of producing
the hollow porous membrane with an excellent adhesive property between a support and
a porous membrane layer at a low cost are provided. The hollow porous membrane
includes a porous membrane layer in which dense layers are disposed in the vicinities of
an outer surface and an inner surface. In the process of producing the hollow porous
10 membrane, membrane-forming dopes of a first membrane-forming dope and a second
membrane-forming dope, which contain the material of the porous membrane layer and a
solvent, are successively applied and stacked onto the outer circumferential surface of a
hollow support and the applied membrane-forming dopes are simultaneously coagulated.
In the process of producing the hollow porous membrane, a porous membrane layer is
15 formed by applying a membrane-forming dope containing a material of the porous
membrane layer and a solvent to the outer circumferential surface of the hollow support
and coagulating the applied dope, and a hollow braid obtained by circularly knitting a
yarn formed of multi-filaments is used as the support.

20 Fig. 9