

Hollow Fiber Separation Membrane Module of Immersing
Type and Method for Manufacturing the Same

ABSTRACT OF THE DISCLOSURE

5 The present invention provides a hollow fiber
membrane module of immersing type and a method for
manufacturing such a hollow fiber membrane module, in
which it is difficult for polluted substances to
accumulate between hollow fiber membranes, and increase
10 in pressure difference, reduction in flow rate and
inter-fiber clogging can be prevented for a long time
period. The module is provided at its both ends with
water collecting portions having water collecting
plates, and hollow fiber membranes are connected to the
15 water collecting plates in such a manner that the hollow
fiber membranes are not in contact with each other, and
the hollow fiber membranes are mounted between the
plates in a relaxed condition. In the manufacturing
method, two parallel winding bars spaced apart from each
20 other by a distance greater than a distance between the
water collecting plates are rotated around their axes to
wind the hollow fiber membranes around the winding bars
at a predetermined pitch in a longitudinal direction of
the bars, and the winding bars on which the hollow fiber
25 membranes were wound are wound in the longitudinal
direction to form a hollow fiber membrane element, and
the element is potted to the water collecting plates.

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