

Abstract

The invention relates to a membrane filter for filtering a liquid to be filtered, the membrane filter including at least one membrane carrier (121) to which membranes (122) are fixed, the membranes allowing a liquid permeate to be filtered out of the liquid, and the membrane carrier includes a permeate collecting chamber (124) to which the membranes (122) are connected in an open manner on the permeate side, and also comprises a permeate outlet for the discharge of the permeate out of the permeate collecting chamber (124); a gas distribution system (126) which is arranged below the at least one membrane carrier (121) and which has at least one downwardly open and upwardly closed tub (127) which has a wall (129) with downwardly open vertical slots (130) for the distribution of a gas into the liquid to be filtered; at least one gas inlet (128) leading into the gas distribution system (126).

The invention also relates to a method for filtering a liquid to be filtered in a membrane filter of said type. According to the invention, in order to reduce the tendency for blockage, at least one tub (127) is configured such that it has, between each adjacent slot (130) in at least one vertical section, an inner edge (132) which forms, at least in the region of a lower half of the slot (130) in each point, an angle of less than 60° with respect to the horizontal. In said method for filtering a liquid to be filtered in a membrane filter of said type, a liquid flow generated at the phase boundary below a gas cushion in the at least one tub (127) impacts on the inner edge (132) of the at least one tub (127).