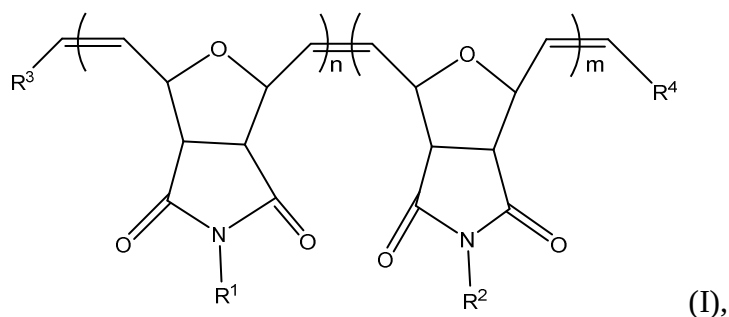


MEMBRANE COMPRISING SELF-ASSEMBLED BLOCK COPOLYMER AND
PROCESS FOR PRODUCING THE SAME BY SPRAY COATING (Ic)

ABSTRACT OF THE DISCLOSURE

Disclosed are membranes formed from self-assembling diblock copolymers of the formula (I):



wherein R^1 - R^4 , n , and m are as described herein, which find use in preparing porous membranes. Embodiments of the membranes contain the diblock copolymer self-assembled into a cylindrical morphology. Also disclosed is a method of preparing such membrane which involves spray coating a polymer solution containing the diblock copolymer to obtain a thin film, followed by annealing the thin film in a solvent vapor and/or soaking in a solvent or mixture of solvents to form a nanoporous membrane.

Figure 3A