

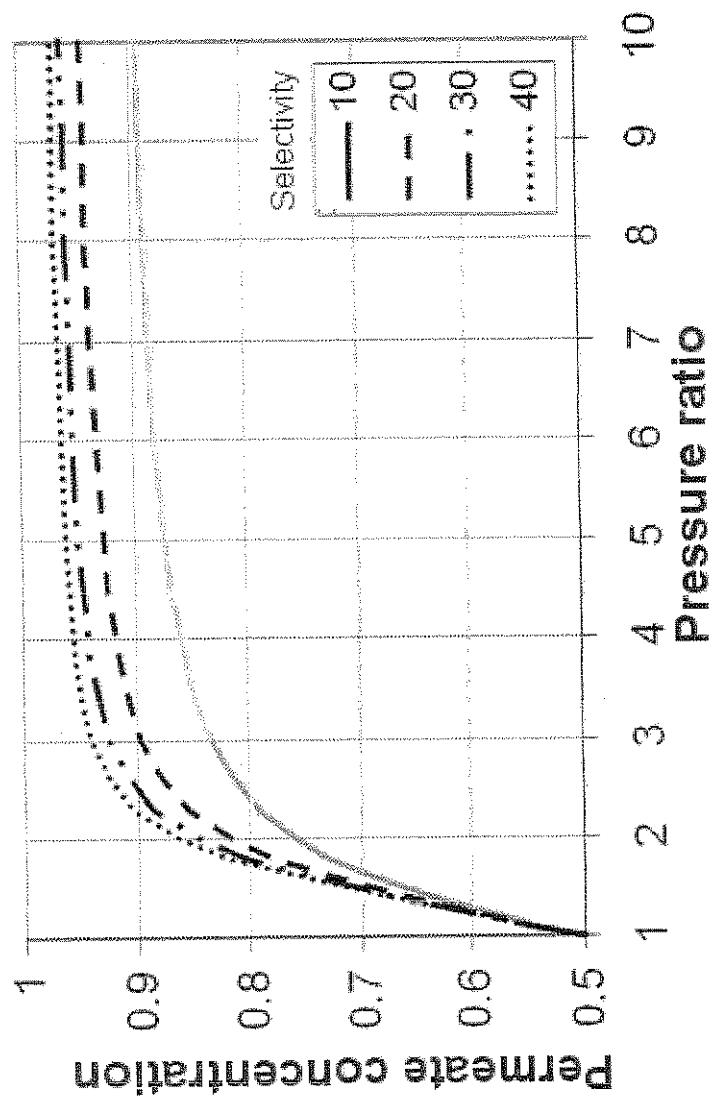


Fig. 1: Influence of the pressure ratio and of the selectivity on the separation outcome



Fig. 2: One-stage membrane separation stage without recycling

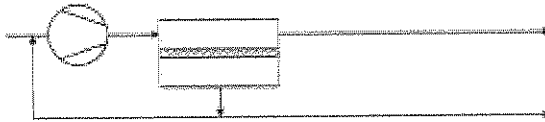


Fig. 3: One-stage membrane separation stage with recycling

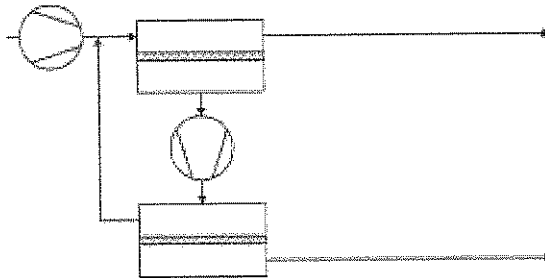


Fig. 4: Two-stage membrane separation stage with recompression and recycling

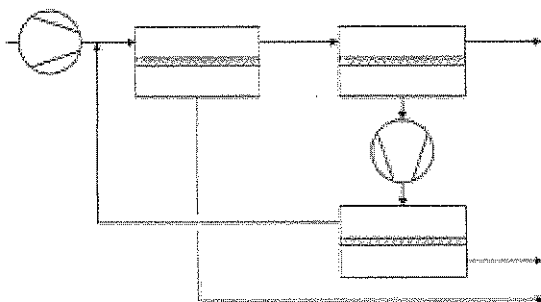


Fig. 5: Staged arrangement for retentate and permeate with recompression and recycling in the second retentate stage upstream of the first retentate stage

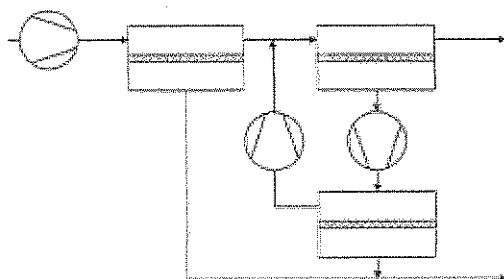


Fig. 6: Staged arrangement for retentate and permeate with recompression and recycling in the second retentate stage upstream of the second retentate stage

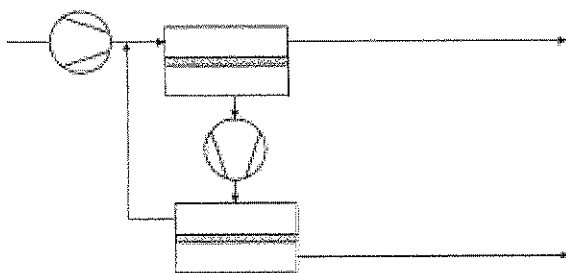


Fig. 7: Staged arrangement for permeate with recompression

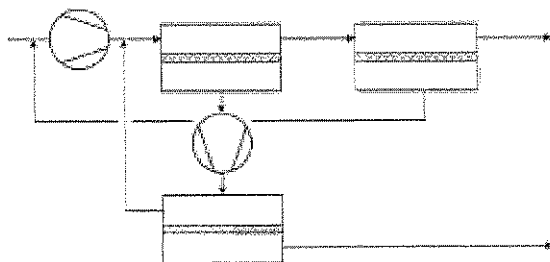


Fig. 8: Staged arrangement for retentate with permeate recycling from the second stage and staged arrangement for permeate with recompression

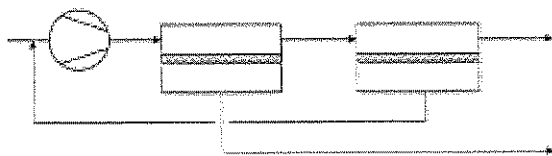


Fig. 9: Staged arrangement for retentate with permeate recycling from the second stage

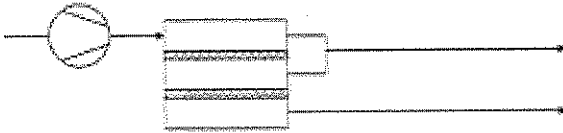


Fig. 10: Connection arrangement with internal staged arrangement for permeate

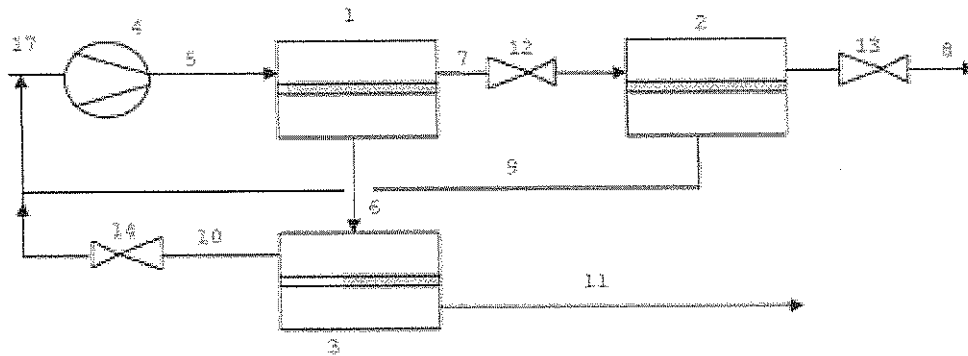


Fig. 11: Illustrative connection arrangement of several membrane modules according to invention