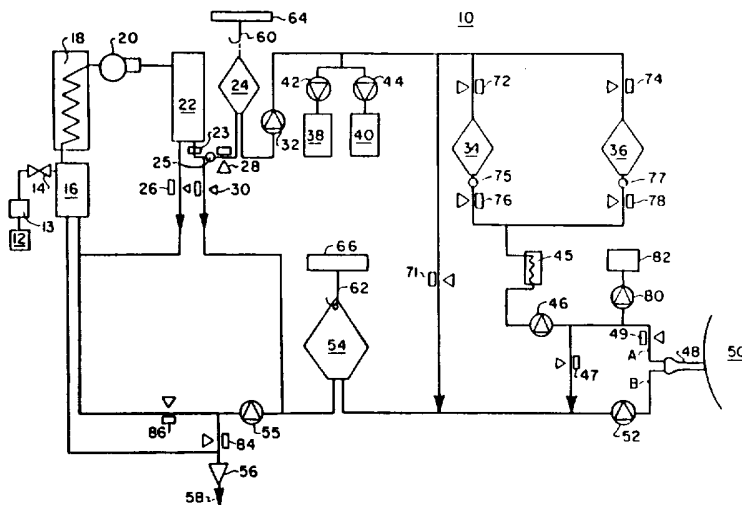




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(21) International Application Number: PCT/US91/05956 (22) International Filing Date: 20 August 1991 (20.08.91) (30) Priority data: 570,660 20 August 1990 (20.08.90) US (71) Applicant: ABBOTT LABORATORIES [US/US]; CHAD 0377/AP6D-2, One Abbott Park Road, Abbott Park, IL 60064-3500 (US). (72) Inventors: KRUGER, Robert, J. ; 1225 So. Patton Avenue, Arlington Heights, IL 60005 (US). FREDERICK, Warren, P. ; 85111 Coral Road, Wonder Lake, IL 60097 (US). HELGREN, R., Hayes ; 289 Banbury Road, Mundelein, IL 60060 (US). LARKIN, Mark, E. ; 419 Northgate, Lindenhurst, IL 60046 (US). MAYORAL, Joaquin ; 213 Midlothian, Mundelein, IL 60060 (US). SCHMOLESKY, Brad, A. ; 1918 E. Melrose, Appleton, WI 54911 (US). SICZEK, Roman, W. ; 2399 Grass Lake Road, Lindenhurst, IL 60046 (US). TIMMONS, Kenneth, J. ; 1988 Green Bay Road, Apt. No. 1, Highland Park, IL 60035 (US).		(74) Agents: GORMAN, Edward, H., Jr. et al.; Abbott Laboratories, CHAD 0377/AP6D-2, One Abbott Park Road, Abbott Park, IL 60064-3500 (US). (81) Designated States: AT (European patent), AU, BE (European patent), CA, CH (European patent), DE (European patent), DK (European patent), ES (European patent), FR (European patent), GB (European patent), GR (European patent), IT (European patent), JP, LU (European patent), NL (European patent), SE (European patent). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> (88) Date of publication of the international search report: 29 May 1992 (29.05.92)
(54) Title: MEDICAL DRUG FORMULATION AND DELIVERY SYSTEM (57) Abstract Medical drug formulation and delivery system includes a reverse osmosis device (22) for purifying water from a source (12) comprising a housing having an inlet for passage of water from the source (12), a first outlet for passage of purified water from the housing and a second outlet for passage of waste water remaining after purification. A first reverse osmosis multilayer assembly is disposed within the housing in fluid communication with the inlet for purification of at least a first portion of the water from the source (12). Water treatment chemicals can be positioned in a core about which the first reverse osmosis multilayer assembly is wound. A second reverse osmosis multilayer assembly is also wound on the core and is in fluid communication with the water treatment chemicals to receive the chemically purified water for purification of at least a second portion thereof. The second reverse osmosis multilayer assembly is in fluid communication with the first outlet so as to permit passage of the second portion of purified water therethrough. In one preferred embodiment, the first and second reverse osmosis assemblies are formed integrally in a side-by-side configuration. In an alternative embodiment, they are rolled about the core in an interleaved configuration. A method of forming a reverse osmosis device, a peritoneal dialysis treatment system (10) and alternative treatment systems incorporating such a device as well as corresponding methods of treatment are also disclosed.		



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