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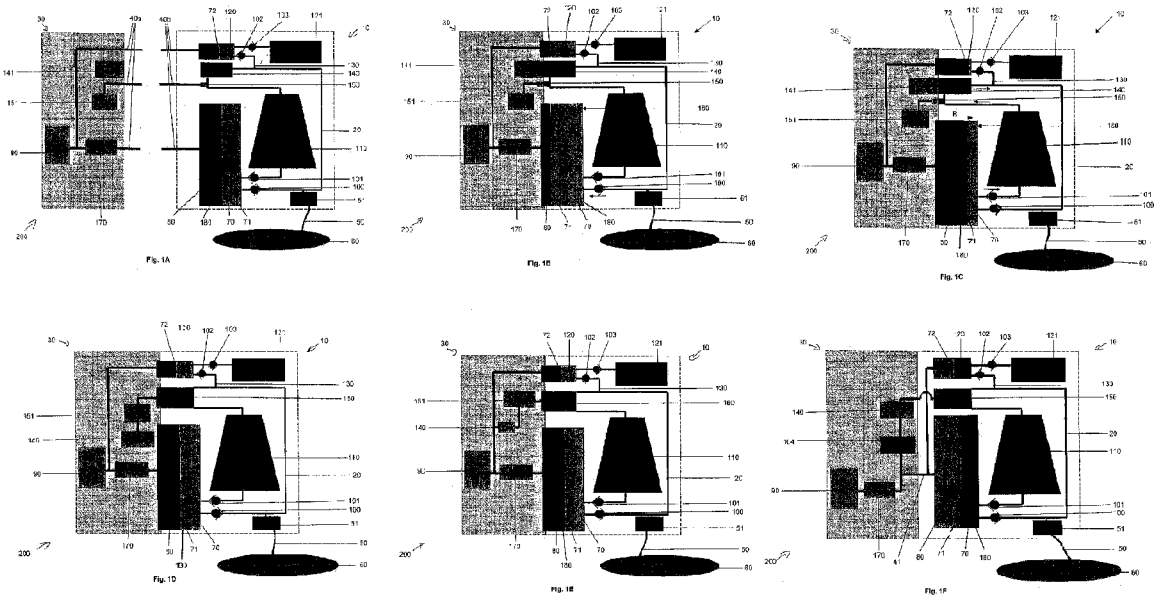
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(54) Title: DIALYSIS DEVICE AND METHOD OF DIALYSIS



(57) Abstract: A dialysis device is provided comprising a disposable housing having a dialysate flow path along which dialysate received from a patient is subjected to contaminant removal when in operation, wherein said disposable housing comprises a storage chamber in fluid communication with the dialysate flow path for storing the dialysate therein; a controller for controlling the operation of said disposable housing; an interface means capable of operably coupling the controller and the disposable housing to enable the contaminant removal from the dialysate, and a fluid displacement means configured to move the dialysate along the dialysate flow path, wherein said fluid displacement means comprises a deformable diaphragm integrally formed with at least one wall of said storage chamber, wherein the flow path is fluidly sealed from the controller and interface means. A method of dialysis, a dialysis system and kits are also provided.

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