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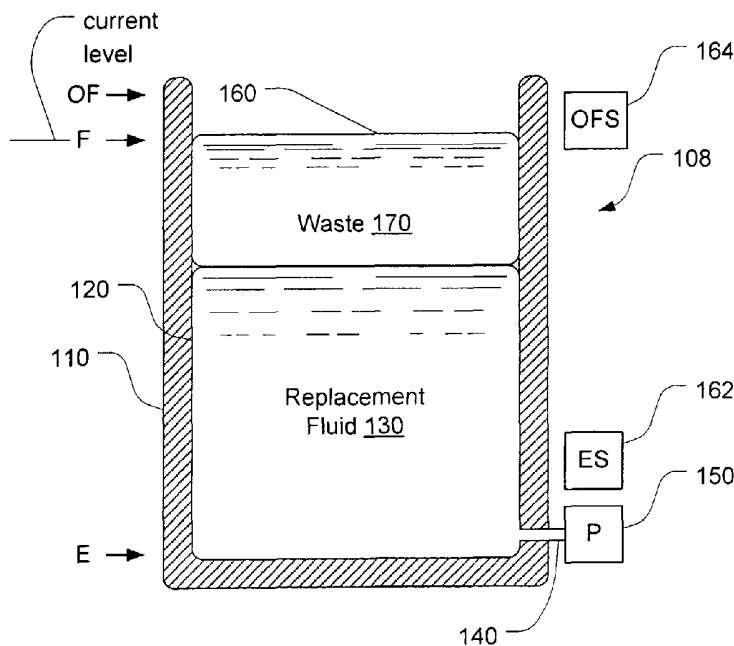
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[Continued on next page]

(54) Title: WASTE BALANCING FOR EXTRACORPOREAL BLOOD TREATMENT SYSTEMS



(57) Abstract: One or more waste balancing systems (108) may be used in a fluid circulating system for medical use. The fluid circulating system may be part of a blood treatment system for a patient suffering renal failure. A waste balancing system may include a pressure element operable to maintain a constant fluid pressure created by the combined weight of waste removed (170) from a patient and replacement fluid (130) for providing to a patient. Multiple evaluation characteristics or control parameters may be evaluated or controlled for safety and accuracy. At least part of the waste balancing system may be incorporated into a disposable cartridge.

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# INTERNATIONAL SEARCH REPORT

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<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) U.S. : 210/645,646,321.71; 604/5.04,6.09,6.11 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST BRS: proportioning, scale, dialysis		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4,661,246 A (ASH et al) 28 April 1987 (28.04.1987), entire document.	1-34
Y	US 5,641,405 A (KESHAVIAH et al) 24 June 1997 (24.06.1997), entire document.	1-34
Y	US 5,344,568 A (KITAEVICH et al) 06 September 1994 (06.09.1994), entire document.	1-34
Y	US 4,728,433 A (BUCK et al) 01 March 1988 (01.03.1988), entire document.	1-34
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
* Special categories of cited documents:		
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Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	Authorized officer Leslie R. Deak <i>Sharon M. Greene for</i> Telephone No. 703-308-0873	