FORM PTO-1619A Expires 06/30/99	10-01-1999 U.S. Department of Commerce Patent and Trademark Office
ОМВ 0651-0027	PATENT
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19-30-44 RECOF	RDATION FORM COVER SHEET
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TO: The Commissioner of Patents and Trader Submission Type	marks: Please record the attached original document(s) or copy(ies). Conveyance Type
X New	Assignment X Security Agreement
Resubmission (Non-Recordation) Document ID#	License Change of Name
Correction of PTO Error Reel # Frame #	Merger Other U.S. Government
Corrective Document Reel # Frame #	(For Use ONLY by U.S. Government Agencies)
Conveying Party(ies)	Mark if additional names of conveying parties attached Execution Date
Name (line 1) HEMOTHERAPIES, INC	Month Day Year
Name (line 2) a Delaware corpora	
Second Party	Execution Date Month Day Year
Name (line 1)	
Name (line 2)	
Receiving Party	Mark if additional names of receiving parties attached
Name (line 1) NORWEST BANK IOWA,	
Name (line 2)	receiving party is not domiciled in the United States, an appointment
Address (line 1) 666 Walnut Street	of a domestic representative is attache
	(Designation must be a separate document from
Address (line 2) P.O. Box 837	Assignment.)
Address (line 3) Des Moines	IA 50304 Zip Code
Domestic Representative Name and	Address Enter for the first Receiving Party only.
Name	
Address (line 1)	
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asthering the data needed to complete the Cover Sheet. Send comm	d to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document nents regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washing
Information Collection Budget Package 0651-0027, Patent and Trade	ffice of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB emark Assignment Practice. DO NOT SEND REQUESTS TO RECORD ASSIGNMENT DOCUMENTS TO THIS ADDRE CORDED WITH REQUIRED COVER Sheet(S) information to:
Commissioner of Patents and	d Trademarks, Box Assignments , Washington, D.C. 20231 PATENT
	PATENT REFL: 010272 FRAME: 0184

FORM PTO-1619B Expires 06/30/99 OMB 0651-0027	Page 2	U.S. Department of Commerce Patent and Trademark Office PATENT	
Correspondent Name and Address	Area Code and Telephone Numbe	r (415) 693-2000	
Name Aaron J. Borden	·		
Address (line 1) Cooley Godward LLP			
Address (line 2) One Maritime Plaza			
Address (line 3) 20th Floor	······································		
Address (line 4) San Francisco, CA	94111-3580		
Pages Enter the total number of pa including any attachments.	ages of the attached conveyance doc	ument # 6	
Application Number(s) or Patent Nur		t if additional numbers attached	
Enter either the Patent Application Number or the Patent Application Number(s)		ers for the same property). ent Number(s)	
		661246	
	5536412		
If this document is being filed together with a <u>new</u> Pate signed by the first named executing inventor.	ent Application, enter the date the patent applic	cation was Month Day Year	
Patent Cooperation Treaty (PCT)			
Enter PCT application number	РСТ	PCT	
only if a U.S. Application Numbe has not been assigned.	r РСТ РСТ	PCT	
Number of Properties Enter the to	tal number of properties involved.	# 4	
Fee Amount Fee Amount	for Properties Listed (37 CFR 3.41):	\$ 160.00	
Method of Payment: Encl Deposit Account	osed X Deposit Account		
(Enter for payment by deposit account or if add	litional fees can be charged to the account.) Deposit Account Number:	# 03-3115	
	Authorization to charge additional fees:	Yes X No	
Statement and Signature			
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as			
indicated herein.	$D \cap I \cap$		
Aaron J. Borden	Lin / Kny	September 29, 1999	
Name of Person Signing	Signature	Date	

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PATENT REEL: 010272 FRAME: 0185 CONDITIONAL ASSIGNMENT OF AND GRANT OF SECURITY INTEREST IN INTELLECTUAL PROPERTY RIGHTS (PATENTS AND TRADEMARKS), DATED AS OF SEPTEMBER 24, 1999, BETWEEN HEMOTHERAPIES INC., A DELAWARE CORPORATION (THE "BORROWER"), AND NORWEST BANK IOWA, NATIONAL ASSOCIATION (THE "BANK").

Pursuant to the certain Amended and Restated Credit Agreement dated the date hereof (as the same may be amended from time to time, the "Credit Agreement"), between the Borrower and the Bank, the Bank has agreed at the Borrower's request to extend a \$6,000,000 line of credit facility (the "Facility") to the Borrower. The Bank's agreement to provide the Facility is subject to the condition, among others, that the Borrower shall have executed and delivered to the Bank (hereinafter the "Secured Party") this Agreement and that this Agreement shall be in full force and effect. This Agreement is issued pursuant to the Credit Agreement and is subject to the provisions thereof and the terms of that certain Amended and Restated Security Agreement dated the date hereof (the "Security Agreement") and issued pursuant to the Credit Agreement.

ACCORDINGLY, in consideration of the premises and mutual covenants and agreements contained in this Agreement, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledge, the parties hereby agree as follows:

SECTION 1. DEFINITIONS.

Capitalized terms used and not otherwise defined herein have the meanings ascribed to them in the Credit Agreement and the Security Agreement.

SECTION 2. INCORPORATION.

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This Agreement is intended to supplement, and not amend or modify, the Security Agreement, the terms and provisions of which (including, without limitation, the provisions of Section 2(b)) are incorporated herein by this reference as if fully set forth herein. Anything contained herein to the contrary notwithstanding, the Security Agreement and this Agreement will remain in full force and effect in accordance with their terms. The rights and remedies of Secured Party with respect to the security interest granted hereby are in addition to those set forth in the Security Agreement, the Credit Agreement and the related documents, and those which are now or hereafter available to Secured Party as a matter of law or equity. Each right, power and remedy of Secured Party provided for herein or in the Security Agreement, the Credit Agreement or any of the related documents, or now or hereafter existing at law or in equity shall be cumulative and concurrent and shall be in addition to every right, power or remedies provided for herein and the exercise by Secured Party of any one or more of the rights, powers or remedies provided for in this Assignment, the Security Agreement, the Credit Agreement or any of the related documents, or now or hereafter existing at law or in equity, shall not preclude the simultaneous or later exercise by any person, including Secured Party, or any or all other rights, powers or remedies.

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SECTION 3. CONDITIONAL ASSIGNMENT AND GRANT OF SECURITY INTEREST.

In order to secure to the Bank, the full and punctual payment and performance of all of the Obligations, the Borrower hereby assigns, transfers, mortgages, pledges and conveys to the Bank, effective, at the option of the Bank, upon the occurrence of an Event of Default, and grants to the Bank a continuing first priority mortgage on and security interest in, all of the Borrower's rights, title and interests in and to the following, whether now owned or hereafter existing, created, acquired or held by the Borrower (all of which shall be collectively called the "Intellectual Property Collateral"): (i) any and all United States patents, United States patent applications, and patent licenses, including, without limitation, those listed on Schedule 1 attached hereto and made a part hereof; (ii) any and all United States trademarks, trademark licenses and the entire goodwill of the business of the Borrower connected with and symbolized by all such trademarks, including without limitation those trademark and trademark licenses listed on Schedule 2 hereto; (iii) any and all copyright and copyright licenses, including, without limitation, those set forth on Schedule 3 attached hereto and made a part hereof; (iv) any and all trade secrets, and any and all intellectual property rights in computer software and computer software products; (v) any and all design rights which may be available to the Borrower; (vi) any and all claims for damages by way of past, present and future infringement of any of the rights included above, with the right, but not the obligation, to sue for and collect such damages for said use or infringement of the intellectual property rights identified above; (vii) all other licenses or other rights to use any of the Intellectual Property, and all license fees and royalties arising from such use to the extent permitted by such license or rights; (viii) all amendments, renewals and extensions of any of the Intellectual Property; and (ix) all proceeds and products of the foregoing, including, without limitation, all payments under insurance or any indemnity or warranty payable in respect of any of the foregoing.

SECTION 4. PURPOSE.

This Agreement has been executed and delivered by the Borrower to the Bank for the purpose of recording with the United States Patent and Trademark Office the conditional assignment of and grant of security interest in the Intellectual Property Collateral.

SECTION 5. BINDING EFFECT.

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This Agreement is binding upon the Borrower and any successor or assign permitted under the Security Agreement and the Credit Agreement and shall inure to the benefit of the Bank, and its respective successors and assigns.

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IN WITNESS WHEREOF, the Borrower has caused this Agreement to be duly executed by its authorized officers as of the date first written above.

HEMOTHERAPIES INC.

ind W Mayounde By:

NORWEST BANK IOWA, NATIONAL ASSOCATION

By: Vale KSEren Randall R. Stramles, UP

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SCHEDULE 1 PRODUCTS, PATENTS, TRADEMARKS, FDA APPLICATIONS

LICENSED PRODUCTS

BioLogic-DT Machine Model DT-1000 BioLogic-PF Machine Model PF-1000 BioLogic-DT Treatment Kit Model DT-1000-TK BioLogic-PF Treatment Kit Model PF-1000-TK

PATENTS

- U.S. Patent Application, Serial No. 08/683,678, "Hemofiltration and plasmafiltration devices and methods", filed July 16, 1996 as a CIP, will be issued as a U.S. Patent in the Fall 1999; U.S. Patent No. 5919369
- U.S. Patent No. 5,536,412, "Hemofiltration and plasmafiltration devices and methods"
 - ▶ Canada, Patent Application Serial No. 2180455
 - > Brazil, Patent Application Serial No. PI9506474.5
 - > China, Patent Application No. 95191976.8
 - Europe, Patent Application No. 95908480.7
 - > Japan, Patent Application No. 518691/95
 - ► Korea, Patent Application No. 96-703722
- U.S. Patent No. 5,277,820, "Device and method for extracorporeal blood treatment"
 - > Europe, Patent Application No. 93904972.2
 - > Japan, Patent Application No. 514234/1993
- U.S. Patent No. 4,661,246, "Dialysis Instrument with Dialysate Side Pump for Moving Body Fluids"
- Exclusive Sublicense of Monsanto's "License Agreement" dated December 1, 1996 for artificial liver technology.
- Non-Exclusive Sublicense of COBE/Gambro's "Technology Transfer and Supply Agreement" dated December 26, 1991 for Sorbent Dialyser (used by HCI to manufacture).
- VivoRX 6/21/96; exclusive Sublicense Joint Development and Marketing Cross License Agreement, dated June 21, 1996 (Hepatocytes and synthetic polymers for rem. of tox.

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SCHEDULE 2 TRADEMARKS

- BioLogic-DT Reg. No. 1,917,782 Was Serial No. 74/524,997
- BioLogic-PF Extension Serial No. 75/321,396
- BioLogic-DTPF System Extension Serial No. 75/321,395

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SCHEDULE 3

None.

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RECORDED: 09/30/1999