Abstract

Treatment apparatus, system and method are disclosed for treating a biological fluid, such as blood or blood components. The treatment may include but is not limited to inactivation of pathogens in red cell concentrate. The system may include a disposable fluid circuit assembly and a reusable controller that controls flow through the fluid circuit for reconstituting, if necessary, a treating agent, combining the treating agent with a biological fluid and mixing the agent and biological fluid. An optional quenching agent may also be used.
**INTERNATIONAL SEARCH REPORT**

**International application No.**

PCT/US03/39973

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**A. CLASSIFICATION OF SUBJECT MATTER**

**IPC:** B01D 33/00(2006.01),37/00(2006.01);A61M 1/00(2006.01),1/02(2006.01),5/178(2006.01),37/00(2006.01);A61B 19/00(2006.01)

USPC: 210/600,632,767;604/4.01,19,6.13,403,416;422/44,50

According to International Patent Classification (IPC) or to both national classification and IPC

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**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

U.S.: 210/600, 632, 767; 604/4.01, 19, 6.13, 403, 416; 422/44, 50

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic database consulted during the international search (name of database and where practicable, search terms used)

EAST search (database uspat, uspgpu, derwent)

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**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

<table>
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<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
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<tr>
<td>X</td>
<td>US 5,269,946 A (GOLDHABER ET AL.) 14 December 1993 (14.12.1993), see entire document.</td>
<td>1, 5, 6-17</td>
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<td>46-48</td>
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**Date of the actual completion of the international search**


**Name and mailing address of the ISA/US**

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**Date of mailing of the international search report**

02 JAN 2008

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