

Title (en)  
SYSTEM FOR VIRAL INACTIVATION OF BLOOD

Title (de)  
SYSTEM ZUR VIRALEN INAKTIVIERUNG VON BLUT

Title (fr)  
SYSTEME POUR INACTIVER LES VIRUS DU SANG

Publication  
**EP 0707633 A4 19960814 (EN)**

Application  
**EP 94921349 A 19940622**

Priority  
• US 9407018 W 19940622  
• US 8177493 A 19930623

Abstract (en)  
[origin: WO9500631A1] A continuous-flow or semi-continuous flow system that accomplishes both virus inactivation of blood and virucidal reagent removal from treated blood. The system permits the pooling of blood prior to treatment with dyes together with visible light or compounds known to principally react with nucleic acids, the in-line use of filters or hydrophobic chromatography to remove unreacted virucidal compound together with its breakdown products, and the in-line distribution of the treated blood into single or multiple storage containers. It has been observed that any residual virucidal compound which cannot be separated from the blood by hydrophobic groups in filters or chromatography columns has lost the capacity to interact with nucleic acid and is no longer virucidal or mutagenic.

IPC 1-7  
**C12M 1/12**; **B01D 61/00**

IPC 8 full level  
**A61L 2/00** (2006.01); **A61M 1/36** (2006.01); **B01D 61/00** (2006.01); **C12M 1/12** (2006.01); **C12N 7/04** (2006.01)

CPC (source: EP KR US)  
**A61L 2/0011** (2013.01 - EP KR); **A61L 2/0088** (2013.01 - EP KR); **A61L 2/08** (2013.01 - EP); **A61M 1/3686** (2014.02 - EP KR US); **A61M 1/3687** (2013.01 - EP KR US); **B01D 15/08** (2013.01 - KR); **B01D 61/00** (2013.01 - EP); **A61M 1/3681** (2013.01 - EP); **A61M 2202/0413** (2013.01 - KR); **A61M 2202/0439** (2013.01 - KR); **A61M 2202/206** (2013.01 - KR); **A61M 2205/75** (2013.01 - KR)

Citation (search report)  
• [A] WO 9103933 A1 19910404 - BLUTSPENEDIENST DT ROTE KREUZ [DE]  
• [Y] HANNU SUOMELA: "INACTIVATION OF VIRUSES IN BLOOD AND PLASMA PRODUCTS", TRANSFUSION MEDICINE REVIEWS, vol. VII, no. 1, January 1993 (1993-01-01), pages 42 - 57, XP000573510  
• [Y] J.L. MATTHEWS ET AL.: "PRELIMINARY STUDIES OF PHOTOINACTIVATION OF HUMAN IMMUNODEFICIENCY VIRUS IN BLOOD", TRANSFUSION, vol. 31, no. 7, 1991, US, pages 636 - 641, XP000573464  
• [A] L.I. FRIEDMAN ET AL.: "VIRAL INACTIVATION AND REDUCTION IN CELLULAR BLOOD PRODUCTS", REVUE FRANCAISE DE TRANSFUSION ET D'HEMOBIOLOGIE, vol. 36, no. 1, January 1993 (1993-01-01), pages 83 - 91, XP000573121  
• [A] T. BURNOUF ET AL.: "L'INACTIVATION DES VIRUS DANS LES FRACTIONS PLASMATIQUES A USAGE THERAPEUTIQUE", NOUVELLE REVUE FRANCAISE D'HEMATOLOGIE, vol. 29, no. 1, 1987, pages 93 - 96, XP000573465

Designated contracting state (EPC)  
AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**WO 9500631 A1 19950105**; AU 698154 B2 19981022; AU 7211394 A 19950117; CA 2165065 A1 19950105; EP 0707633 A1 19960424; EP 0707633 A4 19960814; FI 956078 A0 19951218; FI 956078 A 19960214; JP H09500015 A 19970107; KR 960703167 A 19960619; NO 955291 D0 19951222; NO 955291 L 19960222; ZA 944488 B 19950215

DOCDB simple family (application)  
**US 9407018 W 19940622**; AU 7211394 A 19940622; CA 2165065 A 19940622; EP 94921349 A 19940622; FI 956078 A 19951218; JP 50305295 A 19940622; KR 19950705876 A 19951222; NO 955291 A 19951222; ZA 944488 A 19940622