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PATENT



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<b>Conveying Party(ies)</b> 1. Katsuo AIZAWA 2. Shinjiro SUMI 3. Hirotada TAKAHASHI 4. Noriaki AMAN 5. Yoshihiko TERAYAMA 6. Shuichi GOMI	Execution Date - Month/Day/Year 1. 12/25/00 2. 12/25/00 3. 12/25/00 4. 12/25/00 5. 12/25/00 6. 12/25/00
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<b>Receiving Party(ies)</b> 1. Name: MEIJI SEIKA KAISHA, LTD. Address: 4-16, Kyobashi 2-chome, Chuo-ku, Tokyo, JAPAN
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<b>Correspondent Name and Address</b> Name: LINDA R. POTEATE LARSON & TAYLOR, PLC • 1199 No. Fairfax St. • Suite 900 • Alexandria, VA 22314-1437	Tel No. 703-739-4900 Docket No.: P07029US00/LRP
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<b>Application Number(s) or Patent Number(s)</b> (DO NOT ENTER BOTH numbers for the same property)			
Patent Application Number(s)		Patent Number(s)	
01/11/2001 SN: 07029US00 09743444 03 FC: 581 <input checked="" type="checkbox"/> This document is being filed together with a new patent application. <input checked="" type="checkbox"/> The date the patent application was signed by the first named inventor is: Month 12 Day 25 Year 00			
<input checked="" type="checkbox"/> <b>Patent Cooperation Treaty (PCT)</b> Enter Number <u>only</u> if a US Appl. No. has <u>not</u> been assigned		PCT/JP99/03752	

<b>Number of Properties</b>	Enter the total number of properties involved	1
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<b>Fee Amount</b> Payment is <b>Enclosed</b> (Any insufficiency in fee is authorized to be charged to Deposit Account No. 12-0555)	Fee Amount for Properties Listed (37 CFR 3.41) <b>\$ 40.00</b>
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<b>Statement and Signature</b> 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 are authorized, as indicated herein.	
Name: Douglas E. Jackson 	Date: 1/10/00

PATENT  
REEL: 011545 FRAME: 0989

ASSIGNMENT OF PATENT APPLICATION

WHEREAS,

- (1) Katsuo AIZAWA  
(2) Shinjiro SUMI  
(3) Hirotsada TAKAHASHI  
(4) Noriaki AMAN  
(5) Yoshihiko TERAYAMA  
(6) Shuichi GOMI

residing respectively at

- (1) c/o Tokyo Medical College, 1-1 Shinjuku 6-chome, Shinjuku-ku, Tokyo  
160-0022 Japan  
(2) c/o Pharmaceutical Technology Laboratories, Meiji Seika Kaisha, Ltd.,  
788 Kayama, Odawara-shi, Kanagawa 250-0852 Japan  
(3) Same as above  
(4) Same as above  
(5) Same as above  
(6) c/o Pharmaceutical Research Center, Meiji Seika Kaisha, Ltd.,  
760 Morooka-cho, Kohoku-ku, Yokohama-shi, Kanagawa 222-8567 Japan

(hereinafter referred to as the "ASSIGNOR") has/have invented  
certain new and useful improvements in \_\_\_\_\_

NOVEL X-RAY-INTERCEPTING METAL COMPLEX OF CHLORIN DERIVATIVE

for which ASSIGNOR has

- ☐ executed on even date herewith  
☒ executed on 25th December, 2000  
☐ filed on \_\_\_\_\_, \_\_\_\_\_

an application for Letters Patent of the United States of  
America, Serial No. \_\_\_\_\_.

And WHEREAS MEIJI SEIKA KAISHA, LTD.

\_\_\_\_\_ a company organized under the laws of Japan

\_\_\_\_\_ and having a principal place of business at \_\_\_\_\_  
4-16, Kyobashi 2-chome, Chuo-ku, Tokyo, Japan

(hereinafter referred to as the "ASSIGNEE") is desirous of  
acquiring the entire right, title and interest in and to said  
application and the invention(s) and improvement(s) therein  
disclosed, for the United States of America, and any Letters  
Patent which may issue therefor in the United States and all  
divisions, continuations, reissues, reexaminations, renewals  
and/or extensions thereof.

NOW THEREFORE in consideration of the sum of ten U.S.  
dollars (\$10.00) and other good and valuable consideration, the  
receipt and sufficiency of which is hereby acknowledged, the  
ASSIGNOR does hereby assign, sell, transfer and set over unto

the ASSIGNEE the entire right, title and interest in and to said application and the invention(s) and improvement(s) therein disclosed, for the United States of America, and any Letters Patent which may issue therefor in the United States and all divisions, continuations, reissues, reexaminations, renewals and/or extensions thereof, said ASSIGNEE to have and to hold the interests herein assigned to the full ends of the terms of said Letters Patent and any and all divisions, continuations, reissues, reexaminations, renewals and/or extensions thereof, respectively, as fully and entirely as the same would have been held and enjoyed by the ASSIGNOR had this assignment not been made.

And for the consideration aforesaid, ASSIGNOR agrees that ASSIGNOR will, upon request, communicate to said ASSIGNEE or the representatives thereof any facts known to ASSIGNOR respecting the invention(s) and improvement(s) of the said United States application, and will, upon request, but without expense to ASSIGNOR, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue, reexamination, renewal and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts deemed necessary or expedient by said ASSIGNEE or by counsel for said ASSIGNEE, to assist or enable said ASSIGNEE to obtain and enforce full benefits from the rights and interests herein assigned.

This assignment shall be binding upon the ASSIGNOR's heirs, executors, administrators, successors and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors, and/or assigns, as the case may be, of the ASSIGNEE.

The Commissioner of Patents is requested to issue such Letters Patent in accordance with this assignment.

- (1) Signature: Katsuo Aizawa  
Name: Katsuo AIZAWA  
Date: 25th December 2000
- (2) Signature: Shinjiro Sumi  
Name: Shinjiro SUMI  
Date: 25th December 2000
- (3) Signature: Hirotsada Takahashi  
Name: Hirotsada TAKAHASHI  
Date: 25th December 2000
- (4) Signature: Noriaki Aman  
Name: Noriaki AMAN  
Date: 25th December 2000
- (5) Signature: Yoshihiko Terayama  
Name: Yoshihiko TERAYAMA  
Date: 25th December 2000
- (6) Signature: Shuichi Gomi  
Name: Shuichi GOMI  
Date: 25th December 2000