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FORM PTO-1595 (modified)

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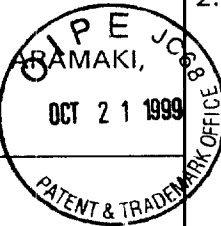
To the Honorable Assistant Secretary
or copy(ies) thereof.

rks: Please record the attached original document(s)

1. Name of conveying party(ies):
Mitsuru SHIRAISHI, Masanori BABA, Yoshio ~~RAMAKI~~,
Osamu NISHIMURA and Naoyuki KANZAKI

Additional name(s) of conveying party(ies) attached? NO

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____
Execution Date: September 1, 8 and 20, 1999,
respectively



2. Name and address of receiving party(ies):
Name: TAKEDA CHEMICAL INDUSTRIES, LTD.
Street Address: 1-1, Doshomachi 4-chome, Chuo-ku,
Osaka 541-0045, Japan
City: Country:
Additional name(s) & address(es) attached? NO

4. Application number(s) or patent number(s):
If this document is being filed together with a new application, the execution date of the application is: respectively
A. Patent Application No.(s)
09/377, 040, filed August 19, 1999
B. Patent No.(s)
, issued
Additional numbers attached? NO

5. Name and address of party to whom correspondence
concerning document should be mailed:
Name: WENDEROTH, LIND & PONACK, L.L.P.
Attn: Warren M. Cheek, Jr., Esq.
Street Address: 2033 K Street, N.W., Suite 800
City: Washington, State: DC ZIP: 20006

6. Total number of applications and patents involved: 1
7. Total fee (37 C.F.R. § 3.41). \$40.00
 Enclosed (Check No. 35376)
Authorized to be charged to deposit account
8. Deposit account number: 23-0975
(Attach duplicate copy of this page if paying by deposit account)

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9. 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.
Warren M. Cheek, Jr., Reg. No. 33,367 Warren M. Cheek, Jr. October 21, 1999
Name of Person Signing Signature Date
Total number of pages including cover sheet: 3

OMB No. 0651-0011 (exp. 4/94)

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ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned

Insert Name(s)
of Inventor(s)

Mitsuru SHIRAISHI, Masanori BABA, Yoshio ARAMAKI, Osamu NISHIMURA and Naoyuki KANZAKI

_____ and

Insert Name(s)
of Assignee(s)

the undersigned hereby sell(s) and assign(s) to

Address

TAKEDA CHEMICAL INDUSTRIES, LTD.

of 1-1, Doshomachi 4-chome, Chuo-ku, Osaka 541-0045, Japan

(hereinafter designated as the Assignee) the entire right, title and interest for the United States as defined in 35 USC 100, in the invention known as

Title of
Invention

QUATERNARY AMMONIUM SALTS AND THEIR USE

for which an application for patent in the United States has been executed by the undersigned

Date of Signing
of Application

on September 1, 1999 (2); September 8, 1999 (4); and
September 20, 1999 (1) (3) (5)

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the firm of WENDEROTH, LIND & PONACK, 2033 K Street, N.W., Suite 800, Washington, D.C. 20006, the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

PATENT
REEL: 010328 FRAME: 0115

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date September 20, 1999 Mitsuru Shiraiishi
Mitsuru SHIRAIISHI (1)

Date September 1, 1999 馬場昌範
Masanori BABA (2)

Date September 20, 1999 Yoshio Aramaki
Yoshio ARAMAKI (3)

Date September 8, 1999 Osamu Nishimura
Osamu NISHIMURA (4)

Date September 20, 1999 Naoyuki Kanzaki
Naoyuki KANZAKI (5)

Date Sep _____

(This assignment should preferably be acknowledged before a United States Consul. If not, then the execution by the Inventor(s) should be witnessed by at least two witnesses who sign here.)

(2) Witness 岡本 真佳 (Mika OKAMOTO) 河村 正輝 (Masaki KAWAMURA)

(4) Witness 藤澤 幸夫 (Yukio FUJISAWA) 日沼 州司 (Shuji HINUMA)

(1) (3) (5) Witness Motonari Kumazaki (Motonari KUMAZAKI) Tadaaki Kitao (Tadaaki KITAO)

ACKNOWLEDGEMENT

} ss

This _____ day of _____, 19____, before me personally came the

above-named _____ to me personally known as the individual(s) who executed the foregoing assignment, who did acknowledge to me that he (they) executed the same of his (their) own free will for the purposes therein set forth.

Official Signature

SEAL

Official Title

The above application may be more particularly identified as follows:

U.S. Application Serial No. _____ Filing Date August 19, 1999

Applicant Reference Number 2542USON Atty Docket No. 00280/2542USON

Title of Invention QUATERNARY AMMONIUM SALTS AND THEIR USE