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U.S. DEPARTMENT OF COMMERCE
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Tab settings

To the Honorable Commissioner of Patents

original documents or copy thereof.

1. Name of conveying party(ies):

Tsuguo KOYANAGI, Katsuhiko SHIRONO,
Atsushi TANAKA and Michio KOMATSU

2. Name and address of receiving party(ies)

Name: CATALYSTS & CHEMICALS
INDUSTRIES CO., LTD.

Internal Address:

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

Execution Date: March 30, 2004

Internal Address:

Street Address: 580, Horikawa-cho, Saiwai-ku,

Kawasaki-shi, Kanagawa 212-0013, JAPAN

City: State: Zip:

Additional name(s) & address(es) attached? ☐ Yes ☒ 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: March 30, 2004

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Kent E. Baldauf

Internal Address: Webb Ziesenheim Logsdon

Orkin & Hanson, P.C.

Street Address: 700 Koppers Building

436 Seventh Avenue

City: Pittsburgh State: PA Zip: 15219

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41)..... \$ 40

- ☒ Enclosed with filing fee
☐ Authorized to be charged to deposit account

8. Deposit account number:

23-0650

(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.

Kent E. Baldauf, Reg. No. 25,826

Name of Person Signing

Signature

April 29, 2004

Date

Total number of pages including cover sheet, attachments, and documents: 2

Mail documents to be recorded with required cover sheet information to:

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P.O. Box 1450
Alexandria, VA 22313-1450

PATENT
REEL: 015656 FRAME: 0304

ASSIGNMENT

WHEREAS, WE. Tsuguo KOYANAGI, Katsuhiro SHIRONO, Atsushi TANAKA and Michio KOMATSU residing in C/O Wakamatsu Plant, CATALYSTS & CHEMICALS INDUSTRIES CO., LTD., 13-2, *** respectively, have invented certain new and useful improvements in the invention entitled TUBULAR TITANIUM OXIDE PARTICLES, PROCESS FOR PREPARING THE SAME, AND for USES THEREOF which a patent application was filed in the United States Patent and Trademark Office on and bears Serial No.

AND, CATALYSTS & CHEMICALS INDUSTRIES CO., LTD. a corporation of Japan, having a place of business at 580, Horikawa-cho, Saiwai-ku, Kawasaki-shi, Kanagawa hereinafter called the "assignee", is desirous of acquiring the entire right, title, and interest in and to said application and the inventions and improvements therein disclosed. 212-0013, Japan

NOW, THEREFORE, for good and valuable consideration paid to us by said assignee, the receipt of which is hereby acknowledged, we do hereby assign, sell, transfer, and set over unto said assignee the entire right, title and interest in and to said application and the inventions and improvements therein disclosed for the United States and all foreign countries and any Letters Patent which may issue therefor in the United States and all foreign countries and all divisions, reissues, continuations, continuations-in-part, 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, reissues, continuations, continuations-in-part, renewals, and/or extensions thereof, respectively, as fully and entirely as the same would have been held and enjoyed by us had this assignment not been made.

The Commissioner for Patents is requested to issue such Letters Patent in accordance herewith. We covenant that we are the lawful owners of the said application, inventions, and improvements, that the same are unencumbered, that no license has been granted to make, use, or vend the said inventions or improvements or any of them, and that we have the full right to make this assignment.

And for the consideration aforesaid, we agree jointly and individually that we will communicate to said assignee or the representatives thereof any facts known to us respecting said inventions and improvements, and will, upon request, but without expense to us, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, continuation-in-part, 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 our heirs, executors, administrators, and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors, and/or assigns, as the case may be, of said assignee.

Date <u>March 30, 2004</u>	Inventor <u>Tsuguo Koyanagi</u>
Date <u>March 30, 2004</u>	Inventor <u>K. Shirono</u>
Date <u>March 30, 2004</u>	Inventor <u>A. Tanaka</u>
Date <u>March 30, 2004</u>	Inventor <u>Michio Komatsu</u>

*** Kitaminato-machi, Wakamatsu-ku, Kitakyushu-shi, Fukuoka 808-0027 Japan