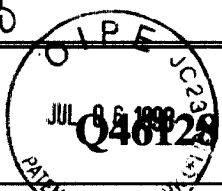


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Atsuo NISHIMURA, Toshio NAGAYASU and Reiji TAKAHASHI

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If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

09/041,023

B. Patent No(s).

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

SUGHRUE, MION, ZINN, MACPEAK & SEAS
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One (1)

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PATENT
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ASSIGNMENT

Whereas, we, Atsuo NISHIMURA, Toshio NAGAYASU and Reiji TAKAHASHI
of Kanagawa, Japan

hereinafter called assignor(s), have invented certain improvements in

PROCESS FOR SEPARATING PENTAFLUOROETHANE AND 1,1,1-TRIFLUOROETHANE

and executed an application for Letters Patent of the United States of America therefor on

June 4, 1998; and

Whereas, Showa Denko Kabushiki Kaisha
13-9, Shiba Daimon 1-chome
Minato-ku, Tokyo 105-8518 Japan

(assignee), desires to acquire the entire right, title and interest in the application and invention, and to
any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

We, the above named assignor(s), hereby sell, assign and transfer to the above named
assignee, its successors and assigns, the entire right, title and interest in the application and the
invention disclosed therein for the United States of America, including the right to claim priority under 35
U.S.C. § 119, and we request the Commissioner of Patents to issue any Letters Patent granted upon
the invention set forth in the application to the assignee, its successors and assigns; and we will
execute without further consideration all papers deemed necessary by the assignee in connection with
the United States application when called upon to do so by the assignee.

We hereby authorize and request our attorneys SUGHRUE, MION, ZINN, MACPEAK & SEAS,
PLLC of 2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037-3202 to insert here in parentheses
(Application number 09/041,023, filed March 12, 1998) the filing date and
application number of said application when known

Date: June 4, 1998 s/ Atsuo Nishimura
Atsuo NISHIMURA

Date: June 4, 1998 s/ Toshio Nagayasu
Toshio NAGAYASU

Date: June 4, 1998 s/ Reiji Takahashi
Reiji TAKAHASHI

Date: s/ _____

Date: s/ _____