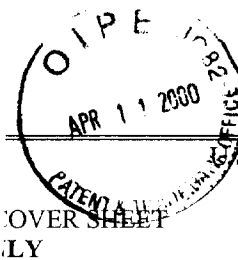


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14-8, Akaoji-cho

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Osaka, 569-1146 JAPAN

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B. Patent No.(s)

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PATENT
REEL: 010886 FRAME: 0105

ASSIGNMENT

Whereas, I/We,

Naoki KAWAHARA, Takashi SHOJI,
Takashi MISONOO, Kouichi AOYAGI,
Akira ARAKE, Takashi SAKAMOTO,
Minoru INOUE and Yasujiro YAMADA all of
OSAKA, JAPAN

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

Fluorescent X-ray Analyzer Useable as Wavelength Dispersive Type
and Energy Dispersive Type

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

December 8, 1999 ; and

Whereas, RIGAKU INDUSTRIAL CORPORATION
of 14-8, Akaoji-cho, Takatsuki-shi,
Osaka 569-1146 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,

I/We, the above named assignor(s), hereby sell, assign and transfer to the 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 I/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 I/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.

Date: December 8, 1999

s/ Naoki Kawahara

Date: December 8, 1999

s/ Takashi Shoji

Date: December 8, 1999

s/ T. Misonoo

Date: December 8, 1999

s/ KOUICHI AOYAGI

Date: December 8, 1999

s/ AKIRA ARAKE

Date: December 8, 1999

s/ TAKASHI SAKAMOTO

Date: December 8, 1999

s/ Minoru Inoue

Date: December 8, 1999

s/ Y. YAMADA