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To the Director of the U.S. Patent and Trademark Office



1. Name of conveying party(ies):

103613565

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3. Nature of conveyance:

- Assignment
- Security Agreement
- Other:
- Merger
- Change of Name

Execution Date(s): 1) November 4, 2010, 2) November 8, 2010, 3) November 4, 2010

4. Application number(s) or patent number(s):

This document is being filed together with a new application.

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

STAAS & HALSEY LLP Our Docket: **1080.1371**
 Attention: **Mark J. Henry**
 1201 New York Ave., N.W., Suite 700
 Washington, D.C. 20005

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41)..... (\$ 40.00 per Patent or Application in Assignment)

- Enclosed
- Authorized to be charged to deposit account.

8. Deposit Account No.: 19-3935 (Any underpayment is authorized to be charged to this Deposit Account) (Attach duplicate copy of this page if paying by deposit account)

Mark J. Henry, Reg. No. 36,162
Name of Person Signing

Signature

December 6, 2010
Date

Total number of pages including cover sheet: 2

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U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by
(Insert Name(s) & Address(es) of ASSIGNEE(S))

FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi,
Kanagawa 211-8588 Japan and JAPAN ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY,
1-1, Asahidai, Nomi-shi, Ishikawa 923-1292 Japan

(hereinafter, "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled
(Title of Invention)

VORTEX EXTRACTION APPARATUS, METHOD, PROGRAM STORAGE MEDIUM, AND
DISPLAY SYSTEM

relating to International Patent Application PCT/JP_____/_____ and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(a) executed on _____; (Insert date of execution of application, if not concurrent)

(b) filed on _____

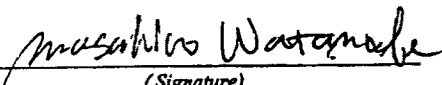


Serial No. ____/_____;

Assignee's attorney is hereby authorized to insert in (b) the specified data, when known.

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/hers/their signature(s).

1)	 (Signature)	Masahiro Watanabe (Type Name)	November 4, 2010 (Date)
2)	 (Signature)	Teruo Matsuzawa (Type Name)	Nov. 8, 2010 (Date)
3)	 (Signature)	Yoshimasa Kadooka (Type Name)	Nov. 4, 2010 (Date)
4)	_____ (Signature)	_____ (Type Name)	_____ (Date)