

08-03-2001



PAT

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TO THE HONORABLE COMMISSIONER OF PATENTS AND TRADEMARKS:

SIR: Please record the enclosed original documents or copy thereof.

1. NAME OF CONVEYING PARTYIES (ASSIGNORS):

- a. Ramon C. W. Chea, Jr. *1-23-01*
- b. P. Kingston Duffie
- c.

Additional names of conveying parties enclosed?

NO YES

2. PARTY(ASSIGNEE) RECEIVING INTEREST:

NAME: **Turnstone Systems, Inc.**
 ADDRESS: **2220 Central Expressway
 Santa Clara, CA 95050**

Additional names and addresses enclosed?

NO YES

11000 U.S. PTO
 09/911550
 07/23/01

3. NATURE OF CONVEYANCE:

(Submit only one document for recordation--multiple copies of same Assignment signed by different inventors is one document)

Assignment of Whole Part interest
 Change of name Patent Application
 Security Merger Other:

Execution date: **January 28, 2000**

4. Execution date/s on Declaration (if filed herewith): **January 28, 2000**

4.5 Appl/Pat Nos.: others on additional sheets enclosed?

NO YES

A. Pat. App. No(s)	Matter #	1st inventor if not in item 1	B. Patent No(s)	1st inventor if not in item 1
Unassigned	0276087			

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

Pillsbury Madison & Sutro LLP
 1100 New York Avenue N.W., 9th Floor, East Tower
 Washington, D.C. 20005-3918

6. NUMBER INVOLVED:
Applns: 1 + Pats: 0 = TOTAL 1

7. Amount of fee enclosed (Code 581):
Above Total x \$40 = **\$40.00**

5.5 ATTY DKT: **085638**

8. If above fee is missing or inadequate, charge insufficiency to DEPOSIT ACCOUNT NO. 03-3975

0276087

TUR-002C

0276087

MATTER NO.

CLIENT REF.

dup. sheet not required

CLIENT/MATTER

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.


 Signature

10. Total pages including this cover sheet and document: **3**

Atty.: Chang H. Kim, Reg. No. 42,727
 Tel: (650) 233-4776 Fax: (650) 233-4045

Date: **July 23, 2001**
 Atty./Sec: **CHK/cp**

07/27/2001 JBALINAN 00000073 09911550
 40.00 DP
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Please return recorded to:
Pillsbury Madison & Sutro LLP
Ninth Floor, East Tower
1100 New York Avenue, N.W.
Washington, D.C. 20005-3918

Atty Dkt. 85638/0261869
Client Ref. TUR-002

**ASSIGNMENT
of U.S. Patent Application**

WHEREAS, the undersigned, to wit: (1) Ramon C. W. Chea, Jr.; and (2) P. Kingston Duffie, (hereinafter collectively ASSIGNOR), have made an invention known as Docket No. 85638/0261869 and entitled, **Battery Injection and Loop Supervision in DSL Environment**, for which an application for Letters Patent of the United States was executed even date herewith and is about to be filed in the United States Patent and Trademark Office; and

WHEREAS, TURNSTONE SYSTEMS, INC., ASSIGNEE, a corporation duly organized and existing under the laws of the State of Delaware and having its principal office and place of business at 274 Ferguson Drive, Mountain View, California 94043, desires to acquire an interest therein;

* * *

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, said ASSIGNOR does hereby sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right, title and interest to the said invention in the United States and all foreign countries, as described in the aforesaid application, and to the said application and to all continuations, divisions, reissues and substitutes of said application, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and ASSIGNOR hereby authorizes and requests the Commissioner of Patents to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives.

AND ASSIGNOR hereby agrees to execute any papers requested by ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

ASSIGNOR furthermore agrees upon request of said ASSIGNEE, and without further remuneration, to execute any and all papers desired by said ASSIGNEE for the filing and granting of foreign applications and the perfecting of title thereto in said ASSIGNEE.

-1-

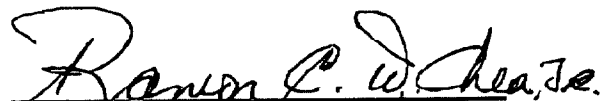
The undersigned hereby authorizes Pillsbury Madison & Sutro LLP, of the above address, to insert further identification necessary or desirable for recordation of this document.

Executed on the date below indicated.

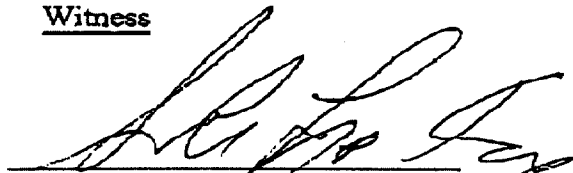
Signature

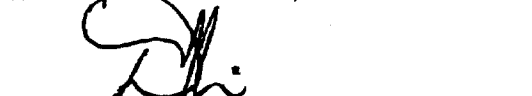
Date Signed

Witness


Ramon C. W. Chea, Jr.

Jan. 28, 2000




P. Kingston Duffie

1/28/2000

