

BOX ASSIGNMENTS

04-02-2002



RE PATENT APPLICATION 102040034

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. 3-22-02

Additional names of conveying parties enclosed? [X] NO [ ] YES

2. PARTY(ASSIGNEE) RECEIVING INTEREST:

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

Additional names and addresses enclosed? [X] NO [ ] YES

3. NATURE OF CONVEYANCE:

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

[X] Assignment of [X] Whole [ ] Part interest

[ ] Change of name [X] Patent Application

[ ] Security [ ] Merger [ ] Other:

Execution date: March 22, 2002

4. Execution date/s on Declaration (if filed herewith): March 22, 2002

4.5 Appl/Pat Nos.: others on additional sheets enclosed? 10,10419 [X] NO [ ] YES

Table with 4 columns: A. Pat. App. No/s, Matter #, 1st inventor if not in item 1, B. Patent No(s), 1st inventor if not in item 1. Row 1: Unassigned, 0293255, TUR-008, 0293255

5. Name and address of party to whom correspondence concerning document should be mailed: Pillsbury Winthrop LLP, 1600 Tysons Boulevard, McLean, Virginia 22102

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 0293255 TUR-008 MATTER NO. CLIENT REF.

8. If above fee is missing or inadequate, charge insufficiency to DEPOSIT ACCOUNT NO. 03-3975 0293255 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 Date: March 22, 2002 Tel: (650) 233-4776 Fax: (650) 233-4545 Atty./Sec: CHK/me

03/27/2002 WABDEL R1 00000055 10104191 04 FC:581 40.00 DP

JC986 U.S. P. 10/104191 03/27/02

Please return recorded to:  
Pillsbury Winthrop LLP  
1800 Tysons Boulevard  
McLean, Virginia 22102

Atty Dkt. 85638/0293255  
Client Ref. TUR-008

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

WHEREAS, the undersigned, to wit: Ramon C. W. Chea, Jr. (hereinafter ASSIGNOR), have made an invention known as Docket No. 85638/0293255 and entitled, **Protection of Double End Exposed Systems**, for which an application for Letters Patent of the United States 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 2220 Central Expressway, Santa Clara, CA 95050, 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.

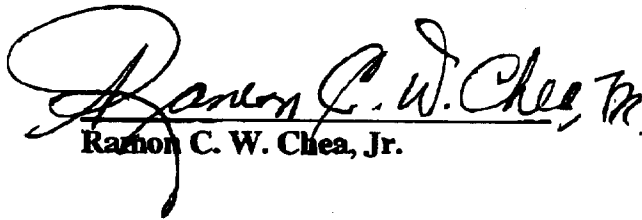
The undersigned hereby authorizes Pillsbury Winthrop LLP, of the above address, to insert further identification necessary or desirable for recordation of this document.

Executed on the date below indicated.

Signature

Date Signed

Witness

 Ramon C. W. Chea, Jr.	<u>3/22/02</u>	<u>K. M. Fale</u>
---	----------------	-------------------