

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
TranSwitch Corporation	12/26/2007
RECEIVING PARTY DATA	
Name:	TR Technologies Foundation LLC
Street Address:	2711 Centerville Road, Suite 400
City:	Wilmington
State/Country:	DELAWARE
Postal Code:	19808
PROPERTY NUMBERS Total: 1	
Property Type	Number
Patent Number:	6822939
CORRESPONDENCE DATA	
Fax Number:	(503)796-2900
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	(503) 222-9981
Email:	patent@schwabe.com
Correspondent Name:	Schwabe, Williamson & Wyatt, P.C.
Address Line 1:	1211 SW Fifth Avenue, Suite 1900
Address Line 4:	Portland, OREGON 97204
ATTORNEY DOCKET NUMBER:	118917-159877
NAME OF SUBMITTER:	Nathan R. Maki
Total Attachments: 9 source=143513_assignment_Transwitch_to_TRTech#page1.tif source=143513_assignment_Transwitch_to_TRTech#page2.tif source=143513_assignment_Transwitch_to_TRTech#page3.tif source=143513_assignment_Transwitch_to_TRTech#page4.tif source=143513_assignment_Transwitch_to_TRTech#page5.tif	

CH \$40.00 6822939

500518462

PATENT
REEL: 020828 FRAME: 0148

source=143513_assignment_Transwitch_to_TRTech#page6.tif
source=143513_assignment_Transwitch_to_TRTech#page7.tif
source=143513_assignment_Transwitch_to_TRTech#page8.tif
source=143513_assignment_Transwitch_to_TRTech#page9.tif

ASSIGNMENT OF PATENT RIGHTS

For good and valuable consideration, the receipt of which is hereby acknowledged, TranSwitch Corporation, a Delaware corporation, with an office at Three Enterprise Drive, Shelton, CT 06404 (**"Assignor"**), does hereby sell, assign, transfer, and convey unto TR Technologies Foundation LLC, a Delaware limited liability company, with an address at 2711 Centerville Road, Suite 400, Wilmington, DE 19808 (**"Assignee"**), or its designees, all right, title, and interest that exist today and may exist in the future in and to any and all of the following (collectively, the **"Patent Rights"**):

(a) the provisional patent applications, patent applications and patents listed in the table below (the **"Patents"**);

(b) all patents and patent applications (i) to which any of the Patents directly or indirectly claims priority, (ii) for which any of the Patents directly or indirectly forms a basis for priority, and/or (iii) that were co-owned applications that incorporate by reference, or are incorporated by reference into, the Patents;

(c) all reissues, reexaminations, extensions, continuations, continuations in part, continuing prosecution applications, requests for continuing examinations, divisions, registrations of any item in any of the foregoing categories (a) and (b);

(d) all foreign patents, patent applications, and counterparts relating to any item in any of the foregoing categories (a) through (c), including, without limitation, certificates of invention, utility models, industrial design protection, design patent protection, and other governmental grants or issuances;

(e) all items in any of the foregoing in categories (b) through (d), whether or not expressly listed as Patents below and whether or not claims in any of the foregoing have been rejected, withdrawn, cancelled, or the like;

(f) inventions, invention disclosures, and discoveries described in any of the Patents and/or any item in the foregoing categories (b) through (e) that (i) are included in any claim in the Patents and/or any item in the foregoing categories (b) through (e), (ii) are subject matter capable of being reduced to a patent claim in a reissue or reexamination proceedings brought on any of the Patents and/or any item in the foregoing categories (b) through (e), and/or (iii) could have been included as a claim in any of the Patents and/or any item in the foregoing categories (b) through (e);

(g) all rights to apply in any or all countries of the world for patents, certificates of invention, utility models, industrial design protections, design patent protections, or other governmental grants or issuances of any type related to any item in any of the foregoing categories (a) through (f), including, without limitation, under the Paris Convention for the Protection of Industrial Property, the International Patent Cooperation Treaty, or any other convention, treaty, agreement, or understanding;

(h) all causes of action (whether known or unknown or whether currently pending, filed, or otherwise) and other enforcement rights under, or on account of, any of the Patents and/or any item in any of the foregoing categories (b) through (g), including, without limitation, all causes of action and other enforcement rights for

- (1) damages,
- (2) injunctive relief, and
- (3) any other remedies of any kind

for past, current, and future infringement; and

(i) all rights to collect royalties and other payments under or on account of any of the Patents and/or any item in any of the foregoing categories (b) through (h).

<u>Pat ent or Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
5,568,060 (08/504,568)	US	10/22/1996 (7/20/1995)	CIRCUIT BOARD INSERTION CIRCUITRY FOR HIGH RELIABILITY BACKPLANES WILLIAM G. BARTHOLOMAY , ORANGE, CT (US)
5,631,906 (08/190,383)	US	5/20/1997 (2/1/1994)	MEDIUM ACCESS CONTROL PROTOCOL FOR SINGLE BUS FAIR ACCESS LOCAL AREA NETWORK ZHENG LIU , WILLOWBROOK, IL (US)
AU19940078388D	AU	9/20/1994	ASYNCHRONOUS DATA TRANSFER AND SOURCE TRAFFIC CONTROL SYSTEM UPP DANIEL C
CA2170602 (CA2170602)	CA	3/23/2004 (9/20/1994)	ASYNCHRONOUS DATA TRANSFER AND SOURCE TRAFFIC CONTROL SYSTEM UPP DANIEL C
CN94109397.6	CN	9/20/1994	ASYNCHRONOUS DATA TRANSFER AND SOURCE TRAFFIC CONTROL SYSTEM AND METHOD UPP D C

<u>Patent or Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
JP1995-0509891	JP	9/20/1994	ASYNCHRONOUS DATA TRANSFER AND SOURCE TRAFFIC CONTROL SYSTEM UPP DANIEL C
DE69431846 (DE69431846.9)	DE	(9/20/1994)	ASYNCHRONOUS DATA TRANSFER AND SOURCE TRAFFIC CONTROL SYSTEM UPP DANIEL C
ES2187535 (ES19940929268)	ES	6/16/2003 (9/20/1994)	ASYNCHRONOUS DATA TRANSFER AND SOURCE TRAFFIC CONTROL SYSTEM UPP DANIEL C
DK19940929268	DK	9/20/1994	ASYNCHRONOUS DATA TRANSFER AND SOURCE TRAFFIC CONTROL SYSTEM UPP DANIEL C
PT19940929268	PT	9/20/1994	ASYNCHRONOUS DATA TRANSFER AND SOURCE TRAFFIC CONTROL SYSTEM UPP DANIEL C
19940929268	Ireland Italy Netherlands Sweden Switzerland UK	9/20/1994	ASYNCHRONOUS DATA TRANSFER AND SOURCE TRAFFIC CONTROL SYSTEM UPP DANIEL C
5,901,146 (08/960,499)	US	5/4/1999 (10/29/1997)	ASYNCHRONOUS DATA TRANSFER AND SOURCE TRAFFIC CONTROL SYSTEM DANIEL C. UPP , SOUTHBURY, CT (US)
6,104,724 (08/961,932)	US	8/15/2000 (10/29/1997)	ASYNCHRONOUS DATA TRANSFER AND SOURCE TRAFFIC CONTROL SYSTEM DANIEL C. UPP , SOUTHBURY, CT (US)
6246682 (09/263,289)	US	6/12/2001 (3/5/1999)	METHOD AND APPARATUS FOR MANAGING MULTIPLE ATM CELL QUEUES

<u>Patent or Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
			SUBHASH C. ROY , STAMFORD, CT (US)
6,321,331 (09/064,474)	US	11/20/2001 (4/22/1998)	REAL TIME DEBUGGER INTERFACE FOR EMBEDDED SYSTEMS SUBHASH C. ROY , STAMFORD, CT (US)
6356561 (09/561,034)	US	3/12/2002 (4/28/2000)	METHOD AND APPARATUS FOR THE FAIR AND EFFICIENT TRANSFER OF VARIABLE LENGTH PACKETS USING FIXED LENGTH SEGMENTS JOSEPH LAU; ROY, SUBHASH C.; GILSDORF, JOHN F
6636515 (09/717,999)	US	10/21/2003 (11/21/2000)	METHOD FOR SWITCHING ATM, TDM, AND PACKET DATA THROUGH A SINGLE COMMUNICATIONS SWITCH SUBHASH ROY , LEXINGTON, MA
7061935 (09/717,147)	US	6/13/2006 (11/21/2000)	METHOD AND APPARATUS FOR ARBITRATING BANDWIDTH IN A COMMUNICATIONS SWITCH SUBHASH ROY , LEXINGTON, MA
6,631,130 (09/717,440)	US	10/7/2003 (11/21/2000)	METHOD AND APPARATUS FOR SWITCHING ATM, TDM, AND PACKET DATA THROUGH A SINGLE COMMUNICATIONS SWITCH WHILE MAINTAINING TDM TIMING SUBHASH ROY , LEXINGTON, MA
6,636,511 (09/717,472)	US	10/21/2003 (11/21/2000)	METHOD OF MULTICASTING DATA THROUGH A COMMUNICATIONS SWITCH

<u>Patent or Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
			SUBHASH ROY , LEXINGTON, MA
6,646,983 (09/717,998)	US	11/11/2003 (11/21/2000)	NETWORK SWITCH WHICH SUPPORTS TDM, ATM, AND VARIABLE LENGTH PACKET TRAFFIC AND INCLUDES AUTOMATIC FAULT/CONGESTION CORRECTION SUBHASH ROY , LEXINGTON, MA (US)
EP01985971.9	EP	11/20/2001	
10/155,517	US	5/24/2002	PHASE AND FREQUENCY DRIFT AND JITTER COMPENSATION IN A DISTRIBUTED TELECOMMUNICATIONS SWITCH SUBHASH ROY , LEXINGTON, MA (US)
6,721,310 (10/000,272)	US	4/13/2004 (11/2/2001)	MULTIPOINT NON- BLOCKING HIGH CAPACITY ATM AND PACKET SWITCH ZHENG LIU , SARATOGA, CA (US)
6,765,867 (10/135,612)	US	7/20/2004 (4/30/2002)	METHOD AND APPARATUS FOR AVOIDING HEAD OF LINE BLOCKING IN AN ATM (ASYNCHRONOUS TRANSFER MODE) DEVICE TIMOTHY SHANLEY , ORANGE, CT (US)
6,822,939 (10/151,617)	US	11/23/2004 (5/20/2002)	METHOD AND APPARATUS

<u>Patent or Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
			FOR GUARANTEEING A MINIMUM CELL RATE (MCR) FOR ASYNCHRONOUS TRANSFER MODE (ATM) TRAFFIC QUEUES RONALD NOVICK , ORANGE, CT (US)
6,850,526 (09/900,307)	US	2/1/2005 (7/6/2001)	METHODS AND APPARATUS FOR EXTENDING THE TRANSMISSION RANGE OF UTOPIA INTERFACES AND UTOPIA PACKET INTERFACES ZHENPING TAN , SAN JOSE, CA
6,914,902 (10/123,697)	US	7/5/2005 (4/16/2002)	DISTRIBUTED SEMI-REARRANGEABLE NON-BLOCKING ALGORITHM FOR CLOS NETWORKS SIAMACK AYANDEH , CONCORD, MA (US)
6,980,513 (09/961,837)	US	12/27/2005 (9/24/2001)	METHODS AND APPARATUS FOR THE FAIR ALLOCATION OF BANDWIDTH AMONG MCR AND BEST EFFORT SERVICE CONNECTIONS IN AN ATM SWITCH RONALD NOVICK , ORANGE, CT (US)
7,072,292 (10/068,168)	US	7/4/2006 (11/13/2001)	METHODS AND APPARATUS FOR SUPPORTING MULTIPLE UTOPIA MASTERS ON THE SAME UTOPIA BUS RONALD NOVICK , ORANGE, CT (US)
7,274,657 (10/328,086)	US	9/25/2007 (12/23/2002)	METHODS AND APPARATUS

<u>Patent or Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
			FOR PROVIDING REDUNDANCY IN AN ASYNCHRONOUS DATA TRANSFER AND SOURCE TRAFFIC CONTROL SYSTEM TIMOTHY SHANLEY , ORANGE, CT (US)
JP2002-544904	JP	11/20/2001	METHOD AND APPARATUS FOR ARBITRATING BANDWITH IN A COMMUNICATIOONS SWITCH SUBHASH ROY, LEXINGTON, MA
CN01822114.9	CN	11/20/2001	METHOD AND APPARATUS FOR ARBITRATING BANDWITH IN A COMMUNICATIOONS SWITCH SUBHASH ROY, LEXINGTON, MA
IL156183	IL	11/20/2001	METHOD AND APPARATUS FOR ARBITRATING BANDWITH IN A COMMUNICATIOONS SWITCH SUBHASH ROY, LEXINGTON, MA
EP1510049	EP	5/13/2003	METHOD AND APPARTUS FOR GUARANTEEING A MINIMUM CELL RATE (MCR) FOR ASYNCHRONOUS TRANSFER MODE (ATM) TRAFFIC QUEUES NOVICK RONALD P
96923666.0	Belgium Finland France	7/5/1996	CIRCUIT BOARD INSERTION CIRCUITRY FOR HIGH

<u>Patent or Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
	Germany Italy Sweden UK		RELIABILITY BACKPLANES BARTHOLOMAY G; PARRELLA L; UPP C; ICHIBA S
EP01985971.9	EP	12/20/2001	METHOD AND APPARATUS FOR ARBITRATING BANDWIDTH IN A COMMUNICATIONS SWITCH SUBHASH ROY, LEXINGTON, MA

Assignor represents, warrants and covenants that:

(1) Assignor has the full power and authority, and has obtained all third party consents, approvals and/or other authorizations required to enter into this Agreement and to carry out its obligations hereunder, including the assignment of the Patent Rights to Assignee; and

(2) Assignor owns, and by this document assigns to Assignee, all right, title, and interest to the Patent Rights, including, without limitation, all right, title, and interest to sue for infringement of the Patent Rights. Assignor has obtained and properly recorded previously executed assignments for the Patent Rights as necessary to fully perfect its rights and title therein in accordance with governing law and regulations in each respective jurisdiction. The Patent Rights are free and clear of all liens, claims, mortgages, security interests or other encumbrances, and restrictions. There are no actions, suits, investigations, claims or proceedings threatened, pending or in progress relating in any way to the Patent Rights. There are no existing contracts, agreements, options, commitments, proposals, bids, offers, or rights with, to, or in any person to acquire any of the Patent Rights.

Assignor hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all patents, certificates of invention, utility models or other governmental grants or issuances that may be granted upon any of the Patent Rights in the name of Assignee, as the assignee to the entire interest therein.

Assignor will, at the reasonable request of Assignee and without demanding any further consideration therefore, do all things necessary, proper, or advisable, including without limitation, the execution, acknowledgment, and recordation of specific assignments, oaths, declarations, and other documents on a country-by-country basis, to assist Assignee in obtaining, perfecting, sustaining, and/or enforcing the Patent Rights. The terms and conditions of this Assignment of Patent Rights will inure to the benefit of Assignee, its

successors, assigns, and other legal representatives and will be binding upon Assignor, its successors, assigns, and other legal representatives.

NY IN WITNESS WHEREOF this Assignment of Patent Rights is executed at New York,
on 12/26/07.

ASSIGNOR:

TranSwitch Corporation

By: [Signature]
Name: TED CHUNG
Title: VICE PRESIDENT
(Signature MUST be notarized)

STATE OF New York)
) ss.
COUNTY OF New York)

On December 26, 2007, before me, Joanne A. Liu,
Notary Public in and for said State, personally appeared Ted Chung,
personally known to me (or proved to me on the basis of satisfactory evidence) to be the
person whose name is subscribed to the within instrument and acknowledged to me that
he/she executed the same in his/her authorized capacity, and that by his/her signature on the
instrument the person, or the entity upon behalf of which the person acted, executed the
instrument.

WITNESS my hand and official seal.

Signature [Signature]

