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Attorney's Docket: 064602.0121			Sheet 1 of
FORM PTO-1595 1-31-92	D	929366	U.S. DEPARTMENT OF COMMERC Patent and Trademark Offi
To the Honorable Commissioner of Pa	tents and Trademarks.	Please record t	the attached original documents or copy thereof.
 Name of Conveying Parties (ALL INI Richard H. Laughlin 1906 Campbell Trail Richardson, Dallas County, Texa United States of America - Citize 	as 75082	Name: Optic	d Address of receiving Party: ical Switch Corporation, a Texas Corporation
Additional name(s) of conveying party(ies) attached?		Internal Addr 880 N. Doro	ress: rothy Drive, Suite 804
3. Nature of conveyance:	, <u> </u>	Street Addre	ess:
X Assignment	Merger	880 N. Doro	rothy Drive, Suite 804
Security Agreement	Change of Name		
Other		City: Richard	
Execution Date: November 30, 1998.		Additional na address(es) at	
4. Application number(s) or patent numb	er(s):		
A. Patent Application No.(s)	Additional	B. Patent No Numbers attache	
5. Name and address of party to whom c concerning document should be mailed:	orrespondence	6. Total num	mber of applications and patents involved: One
Name: Barton E. Showalter		7. Total Fee	e (37 CFR 3.41): \$ 40.00
Internal Address:		XX End	nclosed
BAKER & BOTTS, L.L.P. Street Address: 2001 Ross Avenue			uthorized to be charged to deposit account
Street Address. 2001 Ross Avenue			posit account number:
City Dallas		0. 20p	
-	5201-2980	(Attac	ach Duplicate Copy of this page if paying by deposit account)
	DO NOT US	E THIS SPACE	E
 9. Statement and signature. To the best of my knowledge and true copy of the original documes Barton E. Showalter Name of Person Signing 		nformation is true	ue and correct and any attached copy is a $\frac{12 16 98}{Date}$
		Total number of	of pages including cover sheet
OMB No. 0651-0011 (exp.4/94)		<u> </u>	
		his portion	
Mail documents to be recorded with requi			emerica
2/23/1998 SBURNS 00000060 09212616	Commissioner of I Box As	Patent and Trade: ssignments	emarks
01 FC:581 40.00 0	11	n, D.C. 20231	
document and gathering the data needed, and compl	eting and reviewing the sam	ple cover sheet. Ser	ocument to be recorded, including time for reviewing the end comments regarding this burden estimate to the U.S. Paten to the Office of Management and Budget, Paperwork Reduction

PATENT REEL: 9654 FRAME: 0360

ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, said application having been executed on the date set forth below; and

WHEREAS, Optical Switch Corporation (hereinafter referred to as "Assignee"), a Texas Corporation, with an address of 880 N. Dorothy Drive, Suite 804, Richardson, Texas 75081, desires to acquire my entire right, title and interest in and to the invention, and in and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for and in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I assign to Assignee, all right, title and interest in and to said invention and in and to said application and all patents which may be granted therefor, and all divisions, reissues, continuations, continuations-in-part and extensions thereof; and I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as our interest is concerned, to Assignee.

I also assign to Assignee, all right, title and interest to the invention disclosed in said application throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world including all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and I further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such right, title and interest in Assignee.

I will communicate to Assignee any facts known to me respecting any improvements; and, at the expense of Assignee, I will testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make lawful oaths and declarations, and generally do everything possible to vest title in Assignee and to aid Assignee to obtain and enforce proper protection for said invention in all countries.

This Assignment shall be binding on the parties' successors, assigns and legal representatives.

Title of Invention:

FRUSTRATED TOTAL INTERNAL REFLECTION BUS AND METHOD OF OPERATION

Richard H. Laughlin

Signature of Inventor: Inventor's Name:

Residence (City, County, State)

Richardson, Dallas County, Texas

30 Nov

Date:

Date Application Executed:

November 30, 1998

DAL01:399289

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