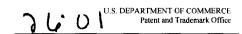
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1) 1-13-1, Nihonbashi, Chuo-ku, Tokyo, 103-8272, JAPAN; 2) 1, Chudoji Awatacho, Shimogyo-ku, Kyoto-shi, Kyoto, 600-

TECHNOLOGY LICENSING ORGANIZATION CO., LTD.

To the Honorable Commissioner of Paten.

Susumu NODA Alongkarn CHUTINAN Daisuke MIYAUCHI Yoshikazu NARUMIYA



Additional name(s) of conveying party(ies) attached? □Yes ■No

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July 2, 2001; June 20, 2001;

July 2, 2001; July 2, 2001

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B. Patent No.(s)

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> **PATENT** REEL: 012016 FRAME: 0621

	WHEREAS, I (WE) Susumu NODA of 231 Kyoto University
	Shyokuinshukushya, Kanyuchi, Gokashyo, Uji-shi, Kyto, Japan
SERT NAMES ND RESIDENCE DDRESSES OF IE INVENTORS:	Alongkarn CHUTINAN of 232-403 Daimonji-cho, Takeyamachi-agaru
	Kawaramachidori, Nagagyo-ku, Kyoto, Japan
	Daisuke MIYAUCHI and Yoshikazu NARUMIYA of c/o TDK CORPORATION
	of 1-13-1, Nihonbashi, Chuo-ku, Tokyo, 103-8272, Japan
	, respectively,
NSERT TITLE OF INVENTION:	have invented certain new and useful improvements in:WAVEGUIDES_AND_WAVELENGTH_
	DEMULTIPLEXERS IN TWO-DIMENSIONAL PHOTONIC CRYSTAL SLABS
ISERT DATE IN- ENTORS SIGNED ECLARATION:	for which an application for Letters Patent was executed on 20/June/2001 and 2/July/2001
	(Application No. 09/814,728 , filed 23/March/2001), and TDK CORPORATION and
ISERT NAME ND ADDRESS OF OMPANY OR THER ASSIGNEE:	WHEREAS, KANSAI TECHNOLOGY LICENSING ORGANIZATION CO., LTD.
THER ASSIGNEE.	(hereinafter referred to as "ASSIGNEE") having a place of business at:
	1, Chudoji Awata-cho, Shimogyo-ku, Kyoto-shi, Kyoto, 600-8815, Japan, respectivel
	is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

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PATENT REEL: 012016 FRAME: 0622 I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, P.C. of Fourth Floor, 1755 Jefferson Davis Highway, Arlington, Virginia 22202 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date:	2/July/2001	/ hide
		(Signature of Inventor) Susumu NODA
Date:	20/June/2001	(Signature of Inventor) Alongkarn CHUTINAN
Date:	2/July/2001	Signature of Inventor) Daisuke MIYAUCHI
		(Signature of Inventor) Daisuke MIYAUCHI
Date:	2/July/2001	Yoshikazu Narumiya
		(Signature of Inventor) Yoshikazu NARUMIYA
Date:		(Signature of Inventor)
Date:		(Signature of Inventor)
Date:		(Signature of Inventor)
Date:_		(Signature of Inventor)

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.

ATTORNEYS AT LAW FOURTH FLOOR 1755 JEFFERSON DAVIS HIGHWAY ARLINGTON, VIRGINIA 22202

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