18136.P03 PAT	FORM COVER SHEET  LLS. DEPARTMENT OF COMMITTEENTS ONLY  510 Rec'd DATESTAND TRADEMINE OF COMMITTEENTS ONLY
To the Honorable Commissioner of Patents and Trademan	ks: Please record the attached original documents or copy thereof.
Name of Conveying party(ies):	2. Name and address of receiving party(ies)
Motoo ASAI Kenichi SHIMADA Kouta NODA	Name: IBIDEN CO., LTD.
Γakashi KARIYA Hiroshi SEGAWA	Internal Address:
dditional name(s) of conveying party(ies) attached? Yes _X_ No  Nature of conveyance:	Street Address: 1, Kanda-cho 2-chome,
X Assignment Merger Security Agreement Change of Name	Ogaki-shi, Gifu 503-0917, JAPAN
Other	City: State: ZIP:  Additional name(s) and address(es) attached? Yes _X_ No
Application number(s) or patent number(s):  If this document is being filed together with a new application, the execu	tion date of the application is: July 01 01 01 01 & 01 1999
A. Patent Application No.(s)	B. Patent No.(s)
Additional numbe	rs attached: Yes <u>X</u> No
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1
Name: Bruce H. Bernstein	7. Total Fee (37 CFR 3.41)\$40.00
Internal Address: P18136	Authorized to be charged to deposit account

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9. Statement and signature.

City: Reston

To the best of my knowledge and belter, be foregoing information is true and correct and any attached copy is a true copy of the original document.

07/28/1999 UCL AYERS (0000033N09301038)
04 FC:581 Name of Person Signing

Street Address: GREENBLUM & BERNSTEIN, P.L.C.

1941 Roland Clarke Place
State: VA

by Xasle Mapeine J Signa 16.33,329 7/3

19-0089
(Attach duplicate copy of this page if paying by deposit account)

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Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

08-24-1999

REEL: 010176 FRAME: 0334

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## ASSIGNMENT

WHEREAS, **Motoo ASAI**, a citizen of Japan, whose post office address is c/o IBIDEN Co., Ltd., 1-1, Kitakata, Ibigawa-cho, Ibi-gun, Gifu 501-0601, Japan, **Kenichi SHIMADA**, a citizen of Japan, whose post office address is c/o IBIDEN Co., Ltd., 1-1, Kitakata, Ibigawa-cho, Ibi-gun, Gifu 501-0601, Japan, **Kouta NODA**, a citizen of Japan, whose post office address is c/o IBIDEN Co., Ltd., 1-1, Kitakata, Ibigawa-cho, Ibi-gun, Gifu 501-0601 Japan, **Takashi KARIYA**, a citizen of Japan, whose post office address is c/o IBIDEN Co., Ltd., 1-1, Kitakata, Ibigawa-cho, Ibi-gun, Gifu 501-0601, Japan, and **Hiroshi SEGAWA**, a citizen of Japan, whose post office address is c/o IBIDEN Co., Ltd., 1-1, Kitakata, Ibigawa-cho, Ibi-gun, Gifu 501-0601, Japan, hereinafter referred to as the ASSIGNORS, have invented a certain improvement relating to

MULTILAYER PRINTED WIRING BOARD AND ITS PRODUCTION PROCESS, RESIN COMPOSITION FOR FILLING THROUGH-HOLE

for which they have, on the dates indicated below, executed an application for Letters Patent of the United States to be filed in the United States Patent and Trademark Office, which is a National Stage Application of International Application No. PCT/JP98/04584, filed October 12, 1998.

AND WHEREAS, IBIDEN Co., Ltd., a corporation organized and existing under the laws of Japan, whose post-office address is 1, Kanda-cho 2-chome, Ogaki-shi, Gifu 503-0917, Japan, hereinafter known as the ASSIGNEE, is desirous of acquiring the entire right, title and interest for the United States in and to said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues, and prolongations thereof.

NOW, THIS WITNESSETH that for and in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt whereof is hereby acknowledged, said ASSIGNORS hereby assign, sell and transfer to said ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application, for the United States including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, said ASSIGNEE and its assigns and legal representatives to have, hold, exercise and enjoy the said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges, and advantages in any ways arising from or pertaining thereto, for and during the term or terms of any and all such Letters Patent when granted, including any and all renewals, reissues, and prolongations thereof, for the use and benefit of said ASSIGNEE and its assigns and legal representatives in as ample and beneficial a manner to all intents and purposes as the said ASSIGNORS might or could have held and enjoyed the same, if this assignment had not been made.

AND said ASSIGNORS hereby agree to execute all papers necessary to file applications in the United States for said invention and to assign the same to said ASSIGNEE, or any assignee Witnessed by:

Sunchin Kohan 02/July/99 Name Date

Tomohiro Nishikawa 02/July 199 ame Date Fomohiro NISHIKAWA

Witnessed by:

Tsunchiro Kohna 02/July/99 Name Date Tsunehiro KOHARA

> Tomohiro Nishikawa 02/July/99 Tomohiro NISHIKAWA

Witnessed by:

Johna 01/July/97
Date

Tomohivo Nishikawa 02/July 199 Tomohiro NISHIKAWA

Hiroshi Segawa
Hiroshi SEGAWA

01/July 199

acquiring title to said invention, and to execute any other papers that may be needed in connection with filing said application and securing Letters Patent thereon.

AND said ASSIGNORS authorize and request the Commissioner of Patents to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said ASSIGNEE, its assigns and legal representatives, in accordance herewith.

IN TESTIMONY WHEREOF, this assignment is executed by said ASSIGNORS, on the respective dates indicated below.

Witnessed by:

Townshire Kohara 02/July/99

Name Tsunehiro KOHARA

Motoo ASAI

Motoo ASAI

Date

Jonohiro Nishikaw oz/July/99

ame Omohiro NISHIKAWA

Witnessed by:

Sunchus Kohara 0-/July/99
Name Date
Tsunchiro KOHARA

Tamphiro Nishikawa 04 July 199 Name Date

Ken-ichi Shimada 01/July/99

Kenichi SHIMADA Date