

IPLUCY Translation Accelerator

USER GUIDE

V0.1 Updated on February 15, 2021

HOW TO USE

1. Create New Translation

The screenshot shows the 'New Translation' page in the IPLUCY interface. The page title is 'New Translation' and the breadcrumb is 'Home · New Translation'. The user is logged in as 'Hi, User'. The main heading is 'New Translation'. Below this, there is a section 'Select Source File to Translate (Currently MS Word .docx Only):'. A blue button labeled 'Select ".docx" File:' is present. Below the button, there are three bullet points: 'Supported File Type: MS Word DOCX (.docx or .DOCX) File', 'Maximum File Size: 4 MB (Mega Bytes) (If your file is bigger than this size, please separate in multiple files and create multiple translation works.)', and 'Supported Language: English, Korean, Japanese (Comming Soon: Chinese (Simplified))'. Below the bullet points, there is a file selection field with the text '파일 선택 case_202105_Patent_PCTUS.docx'. To the right of the file field, there is a 'From' dropdown menu showing 'English'. To the right of the 'From' dropdown, there is a 'To' dropdown menu with a checkmark and the text 'Choose Target Language'. The 'To' dropdown menu is open, showing three options: 'English', 'Korean', and 'Japanese', with 'Japanese' selected. There are three blue callout boxes: one on the left containing a list of features, one in the middle pointing to the 'From' dropdown, and one on the right pointing to the 'To' dropdown.

Home · New Translation

Hi, User

New Translation

Select Source File to Translate (Currently MS Word .docx Only):

Select ".docx" File:

- Supported File Type: MS Word DOCX (.docx or .DOCX) File
- Maximum File Size: 4 MB (Mega Bytes) (If your file is bigger than this size, please separate in multiple files and create multiple translation works.)
- Supported Language: English, Korean, Japanese (Comming Soon: Chinese (Simplified))

파일 선택 case_202105_Patent_PCTUS.docx

From English

To ✓ Choose Target Language
English
Korean
Japanese

- IPLUCY Translation Accelerator provides User Interface for paragraph-by-paragraph review and modification.
- Paragraphs are separated by line breakers (e.g., the "Enter" or "Return" key).
- Any sentence with more than 150-200 words might be dropped. You are recommended to keep sentences to roughly 150 words or less.

The language of the uploaded file is automatically detected.

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2. Review and Modify Translation

IP Lucy Home · Translation Hi, User

Translation

Translation of File case_202106_patent_pctus.docx

No	Source Text	Translated Text
1	POLYCRYSTALLINE CERAMIC SUBSTRATE AND METHOD OF MANUFACTURE	多結晶セラミック基板と製造方法
2	CROSS-REFERENCES TO RELATED APPLICATIONS	関連アプリケーションへの相互参照
3	[0001] This application claims priority to U.S. Provisional Patent Application No. 62/354,623, filed on June 24, 2016, entitled "POLYCRYSTALLINE CERAMIC SUBSTRATE AND METHOD OF MANUFACTURE," the disclosure of which is hereby incorporated by reference in its entirety for all purposes.	この出願は、2016年6月24日に提出された「多結晶セラミック基板および製造方法」と題する米国仮特許出願第62 / 354,623号の優先権を主張し、その開示は、参照によりその全体がすべての目的のために本明細書に組み込まれる。
4	[0002] The following U.S. Patent Application is being filed concurrently with this application, and the disclosure of this application is hereby incorporated by reference in its entirety for all purposes:	以下の米国特許出願が参照により本明細書に組み込まれる。
5	[0003] Application No. 15/621,235, filed on June 13, 2017, entitled "POLYCRYSTALLINE CERAMIC SUBSTRATE AND METHOD OF MANUFACTURE" (Attorney Docket No. 098825-1049531 (003210US)).	「ポリクリスタルセラミック基板と製造方法」(098825-1049531 (003210US)) (弁護士整理番号)
6	BACKGROUND OF THE INVENTION	発明の背景
7	[0004] Light-emitting diode (LED) structures are typically epitaxially grown on sapphire substrates. Many products currently use LED devices, including lighting, computer monitors, and other display devices.	発光ダイオード (LED) 構造は通常、サファイア基板にエピタキシャル成長させられ、照明、コンピュータモニター、その他のディスプレイデバイス、その他のディスプレイデバイス。
8	[0005] The growth of gallium nitride based LED structures on a sapphire substrate is a heteroepitaxial growth process since the substrate and the epitaxial layers are composed of different materials. Due to the heteroepitaxial growth process, the epitaxially grown material can exhibit a variety of adverse effects, including reduced uniformity and reductions in metrics associated with the electronic/optical properties of the epitaxial layers. Accordingly, there is a need in the art for improved methods and systems related to epitaxial growth processes and substrate structures.	サファイア基板に Gallium nitride 基 LED 構造を成長させるのは、異なる材料からなる基板とエピタキシャル層を有するヘテロエピタキシャル成長プロセスであるため、不均一性の低下や、エピタキシャル層の電子/光学特性に関連する指標の低下などの悪影響をもたらす可能性があります。したがって、当技術分野では、エピタキシャル成長プロセスおよび基板構造に関連する改善された方法およびシステムが必要とされている。
9	SUMMARY OF THE INVENTION	発明の概要
10	[0006] The present invention relates generally to engineered substrate structures. More specifically, the present invention relates to methods and systems suitable for use in epitaxial growth processes. Merely by way of example, the invention has been applied to a method and system for providing a substrate structure suitable for epitaxial growth that is characterized by a coefficient of thermal expansion (CTE) that is substantially matched to epitaxial layers grown thereon. The methods and techniques can be applied to a variety of semiconductor processing operations.	本発明は、一般に、操作された基板構造に関する。より具体的には、本発明は、エピタキシャル成長プロセスでの使用に適した方法およびシステムに関する。単なる例として、本発明は、その上に成長したエピタキシャル層に実質的に一致する熱膨張係数 (CTE) によって特徴付けられるエピタキシャル成長に適した基板構造を提供するための方法およびシステムに適用された。この方法および技術は、様々な半導体処理操作に適用することができる。
	[0007] According to an embodiment, a method of fabricating a ceramic substrate structure includes providing a	一実施形態によれば、セラミック基板構造を製造する方法は、セラミック基板を提供し、セラミック基板をバリア層にカプセル化し、

- If you want to modify translated texts of a paragraph, click the paragraph.
- Upon completion of modification, click anywhere other than the paragraph. **DO NOT** press the Enter (or Return) key.
- Your modified paragraph is automatically stored in the server.
- You can review and modify translation whenever necessary.

3. Review and Modify Translation

96	[0090] it is also understood that the examples and embodiments described herein are for illustrative purposes only and that various modifications or changes in light thereof will be suggested to persons skilled in the art and are to be included within the spirit and purview of this application.	本明細書に記載の実施例および実施形態は、例示のみを目的としており、その観点からの様々な修正または変更が本来自ら提案され、本出願の精神および範囲内に含まれることも理解される。
97	WHAT IS CLAIMED IS:	主張されているのは：
98	1. A method of fabricating a substantially planar ceramic substrate structure, the method comprising:	実質的に平面のセラミック基板構造を製造する方法であって、以下を含む方法。
99	providing a ceramic substrate having a front surface;	前面を有するセラミック基板を提供する。
100	encapsulating the ceramic substrate in a barrier layer;	セラミック基板をバリア層にカプセル化する。
101	forming a bonding layer coupled to the barrier layer;	バリア層に結合された結合層を形成する。
102	removing a portion of the bonding layer to expose at least a portion of the barrier layer and to define fill regions; and	結合層の一部を除去して、バリア層の少なくとも一部を露出させ、充填領域を定義する。そして
103	depositing a second bonding layer on the at least a portion of the exposed barrier layer and the fill regions.	露出したバリア層および充填領域の少なくとも一部に第2の結合層を堆積させる。
104	2. The method of claim 1 wherein the ceramic substrate is characterized by a plurality of voids and the bonding layer fill regions disposed between the plurality of voids.	前記セラミック基板は、複数のボイドと、複数のボイドの間に配置された結合層充填領域とを特徴とする、請求項1に記載の方法。
105	3. The method of claim 1 wherein removing the portion of the bonding layer comprises a chemical-mechanical polishing (CMP) process.	結合層の一部を除去することが、化学機械研磨 (CMP) プロセスを含む、請求項1に記載の方法。
106	4. The method of claim 3 wherein the CMP process terminates at the barrier layer.	CMPプロセスがバリア層で終了する、請求項3に記載の方法。
107	5. The method of claim 4 wherein the barrier layer comprises silicon nitride.	バリア層が窒化ケイ素を含む、請求項4に記載の方法。
108	ABSTRACT	概要
109	A method of fabricating a ceramic substrate structure includes providing a ceramic substrate, encapsulating the ceramic substrate in a barrier layer, and forming a bonding layer coupled to the barrier layer. The method further includes removing a portion of the bonding layer to expose at least a portion of the barrier layer and define fill regions, and depositing a second bonding layer on the at least a portion of the exposed barrier layer and the fill regions.	セラミック基板構造を製造する方法は、セラミック基板を提供すること、セラミック基板をバリア層にカプセル化すること、およびバリア層に結合された結合層を形成することを含む。この方法はさらに、結合層の一部を除去してバリア層の少なくとも一部を露出し、充填領域を定義することと、露出したバリア層および充填領域の少なくとも一部に第2の結合層を堆積することを含む。

Click the button to save the work and get download link for the translation as MS Word .docx file:

Save and Get Download Link

If you click this button, a link for downloading a WORD (.docx) file containing the translation is provided.

[Go Back to Translations List](#)

If you click here, you go to the list of translations created by you.

4. Translations List

IP Lucy Home · Translations List Hi, User

Translations Created

Create New Translation

Create a New Translation:
You can create a new IPLucy Translation by clicking the "Create New Translation" button.

Create New Translation

Search source file name For all translations, do not input any character and press "Enter". Items/page 10

No	Source File Name	Languages	No. of Characters	DateTime	Result
1	case_202106_patent_pctus.docx	From: ENGLISH To: JAPANESE	Source: 61,452 Chars. Translated: 61,452 Chars.	Start: 2021년 2월 13일 오후 7:10:00 End: 2021년 2월 13일 오후 7:11:14	Review Translation
2	case_202105_patent_pctus.docx	From: ENGLISH To: JAPANESE	Source: 61,452 Chars. Translated: 61,452 Chars.	Start: 2021년 2월 12일 오후 9:04:38 End: 2021년 2월 12일 오후 9:05:49	Review Translation
3	case_202104_patent_pctus.docx	From: ENGLISH To: JAPANESE	Source: 64,058 Chars. Translated: 64,058 Chars.	Start: 2021년 2월 12일 오후 8:47:45 End: 2021년 2월 12일 오후 8:48:59	Review Translation
4	case_202104_patent_pctus.docx	From: ENGLISH To: KOREAN	Source: 64,058 Chars. Translated: 64,058 Chars.	Start: 2021년 2월 12일 오전 2:28:28 End: 2021년 2월 12일 오전 2:29:57	Review Translation
5	case_202103_patent_pctus.docx	From: ENGLISH To: KOREAN	Source: 64,190 Chars. Translated: 64,190 Chars.	Start: 2021년 2월 12일 오전 2:19:36 End: 2021년 2월 12일 오전 2:20:50	Review Translation
6	case_202103_patent_pctus.docx	From: ENGLISH To: KOREAN	Source: 64,190 Chars. Translated: 64,190 Chars.	Start: 2021년 2월 10일 오전 1:32:55 End: 2021년 2월 10일 오전 1:34:08	Review Translation
7	case_202101_patent_pctus.docx	From: ENGLISH To: KOREAN	Source: 64,544 Chars. Translated: 64,544 Chars.	Start: 2021년 2월 10일 오전 12:30:48 End: 2021년 2월 10일 오전 12:32:03	Review Translation

If you click here, you can review and modify the translation.

Thank You!