

**ELECTRONIC ACKNOWLEDGEMENT RECEIPT**

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
19/249,989	06/25/2025 09:46:00 PM Z ET	-

Title of Invention

INTEGRATED TSV AND COOLING CHANNEL FORMATION METHOD

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	4587	FILED BY	Bong Hyung Lee
PATENT CENTER #	71082949	FILING DATE	-
CUSTOMER #	-	FIRST NAMED INVENTOR	Bong Hyung Lee
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Documents**TOTAL DOCUMENTS: 2**

DOCUMENT		PAGES	DESCRIPTION	SIZE (KB)
INTEGRATED TSV AND COOLING CHANNEL FORMATION METHOD.pdf		14	-	377 KB
INTEGRATED TSV AND COOLING CHANNEL FORMATION METHOD- SPEC.pdf	(1-11)	11	Specification	342 KB
INTEGRATED TSV AND COOLING CHANNEL FORMATION METHOD- CLM.pdf	(12-14)	3	Claims	210 KB

Digest

DOCUMENT

MESSAGE DIGEST(SHA-512)

INTEGRATED TSV AND
COOLING CHANNEL
FORMATION METHOD.pdf

C80D3FFAC2D56D9B07456B40CDEA8707A85491ABC0483B0B
AF97DFB111E19E3B1876B098EE7A333B6822C6C6EEE874DF
8F8C2A3080B996D0AFC3CFFAB1BD97C9

INTEGRATED TSV AND
COOLING CHANNEL
FORMATION METHOD-
SPEC.pdf

17D546F04C483F832CC4CFD312F57762F287A5668274F963C3
351A82AA80C3685D651CCA77D039E6AB5DEE1AD1F7D4CFE
1FE049A46239F1526691CA8A6F714E9

INTEGRATED TSV AND
COOLING CHANNEL
FORMATION METHOD-
CLM.pdf

213B6C96144DE7A6CE2A5A7617BF448493BA9216703BD35D9
AC5B6B2792EFEB957EEBA2ED537DFFC56F7D074921EEE917
E56C9A229301B99689E9709B00E5CB1

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.