

**ELECTRONIC ACKNOWLEDGEMENT RECEIPT**

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
<b>19/248,487</b>	<b>06/25/2025 02:45:15 AM Z ET</b>	-

**Title of Invention**

FOUR-TIER HIERARCHICAL COOLING ARCHITECTURE FOR STACKED DEVICES

**Application Information**

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	6162	FILED BY	Lee Bong Hyoung
PATENT CENTER #	71062118	FILING DATE	-
CUSTOMER #	-	FIRST NAMED INVENTOR	Lee Bong Hyoung
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**Documents****TOTAL DOCUMENTS: 3**

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
FOUR-TIER HIERARCHICAL COOLING.pdf	15	-	316 KB
FOUR-TIER HIERARCHICAL COOLING-SPEC.pdf	(1-12) 12	Specification	265 KB
FOUR-TIER HIERARCHICAL COOLING-CLM.pdf	(13-14) 2	Claims	176 KB
FOUR-TIER HIERARCHICAL	(15-15) 1	Abstract	165 KB

COOLING-ABST.pdf

**Digest**

<b>DOCUMENT</b>	<b>MESSAGE DIGEST(SHA-512)</b>
FOUR-TIER HIERARCHICAL COOLING.pdf	FC82D06EC0F113571B5158509F22611F9C7E9767B5E86E0CE E116687C9CBD76729AF6FF535D9BA948E372B9FCEF760816D 09BDDE12936F40CC453832279A1D24
FOUR-TIER HIERARCHICAL COOLING-SPEC.pdf	A220D90C000D57097CC34A957C16B70FD2AA634A89D01B204 CB7DB817B1A1D5B2878DD379C6BF93F50080F30FB8D7AD8D 61B381BC60C3FA40C18937593AECE06
FOUR-TIER HIERARCHICAL COOLING-CLM.pdf	F1985B55B6FBE5D604B80578D17DC8FFE5C3547F46CC34356 191DA275FEF59F95BB9278EE841255034031DDF1FCB3726BD A5BC52A10FE72583C9227466CD9EB6
FOUR-TIER HIERARCHICAL COOLING-ABST.pdf	00111B2880638F8B5887CDA925C1955717C78DC1928B596A1 C5B13D2E179611F1CE95C026AD785D166B3CDE906FAB1E97 CA81A72DE9F3547EF39C12CBF541BD0

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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.