

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2006/0185829 A1 Duan et al.

Aug. 24, 2006 (43) **Pub. Date:**

- (54) LIQUID-COOLING HEAT DISSIPATION APPARATUS
- (75) Inventors: **Qiang-Fei Duan**, Chung-Ho City (CN); Lieh-Feng Lo, Chung-Ho City (TW)

(57)ABSTRACT

Correspondence Address: HDSL **4331 STEVENS BATTLE LANE** FAIRFAX, VA 22033 (US)

(73) Assignee: Cooler Master Co., Ltd.

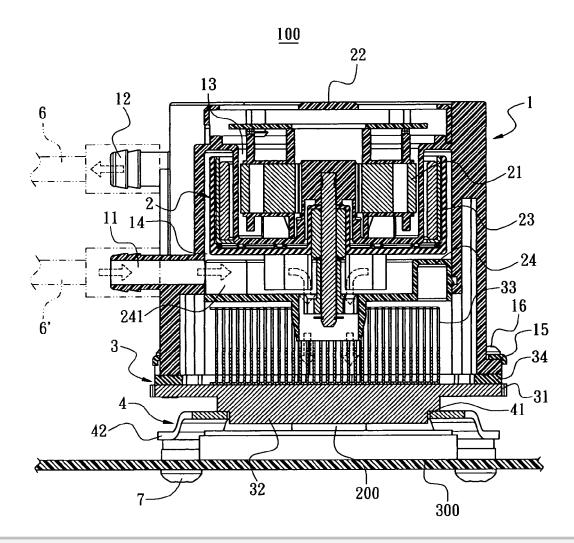
(21) Appl. No.: 11/060,419

(22) Filed: Feb. 18, 2005

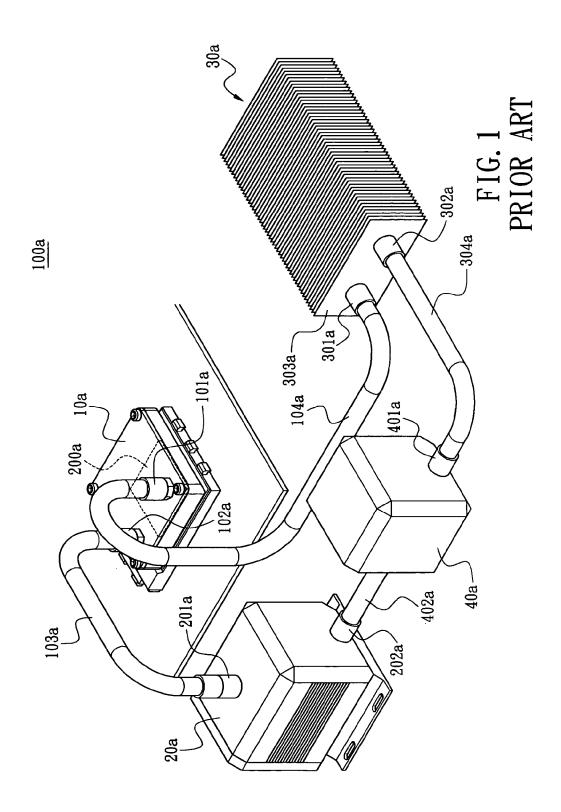
Publication Classification

(51) Int. Cl. (2006.01)F28D 15/00

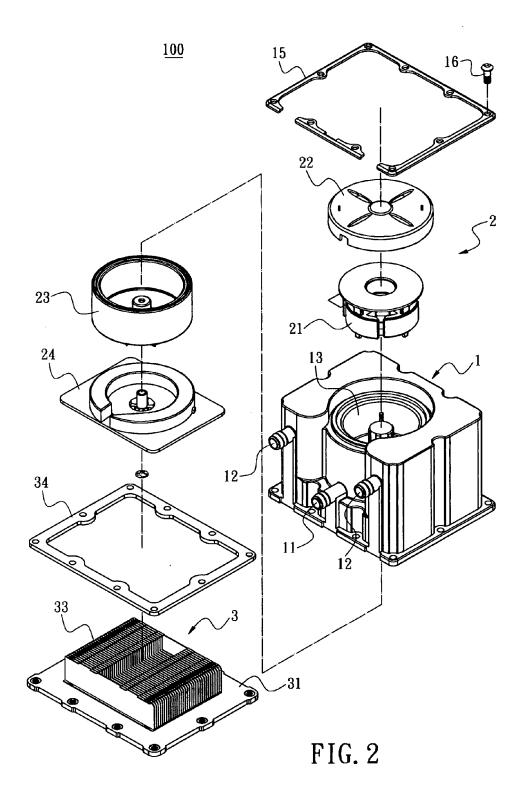
A liquid-cooling heat dissipation apparatus includes a casing, a first compartment defined in the casing for assembling a liquid driving unit, a cooling plate module on bottom of the casing, a second compartment defined between an inner space of the casing and the cooling plate module and containing a cooling liquid therein. At least one liquid inlet and liquid outlet are defined on the casing and communicated through the second compartment. Therefore, the liquid driving unit and the cooling plate module can be advantageously integrated into the casing while the duct is reduced to achieve compact space. Moreover, the overall structure achieves liquid storing, circulating and heat conveying func-

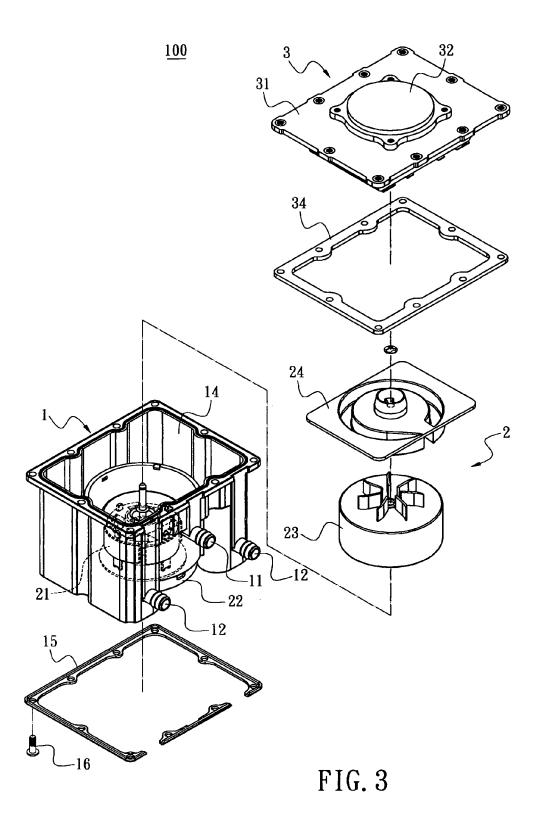


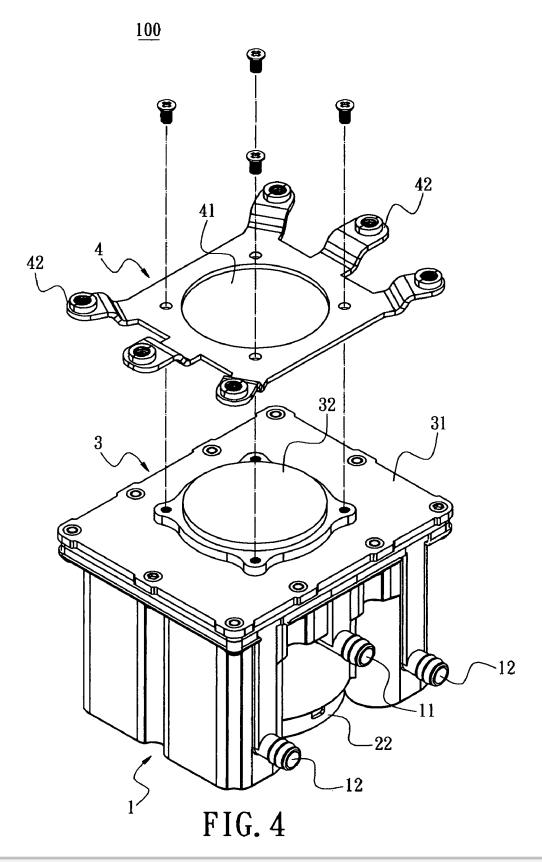












DOCKET

Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.

