



US 20060185830A1

(19) **United States**

(12) **Patent Application Publication** (10) **Pub. No.: US 2006/0185830 A1**

Duan

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

(54) **COOLING PLATE MODULE**

(57)

ABSTRACT

(75) Inventor: **Qiang-Fei Duan**, Chung-Ho City (TW)

Correspondence Address:

HDSL

4331 STEVENS BATTLE LANE

FAIRFAX, VA 22033 (US)

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

(21) Appl. No.: **11/060,442**

(22) Filed: **Feb. 18, 2005**

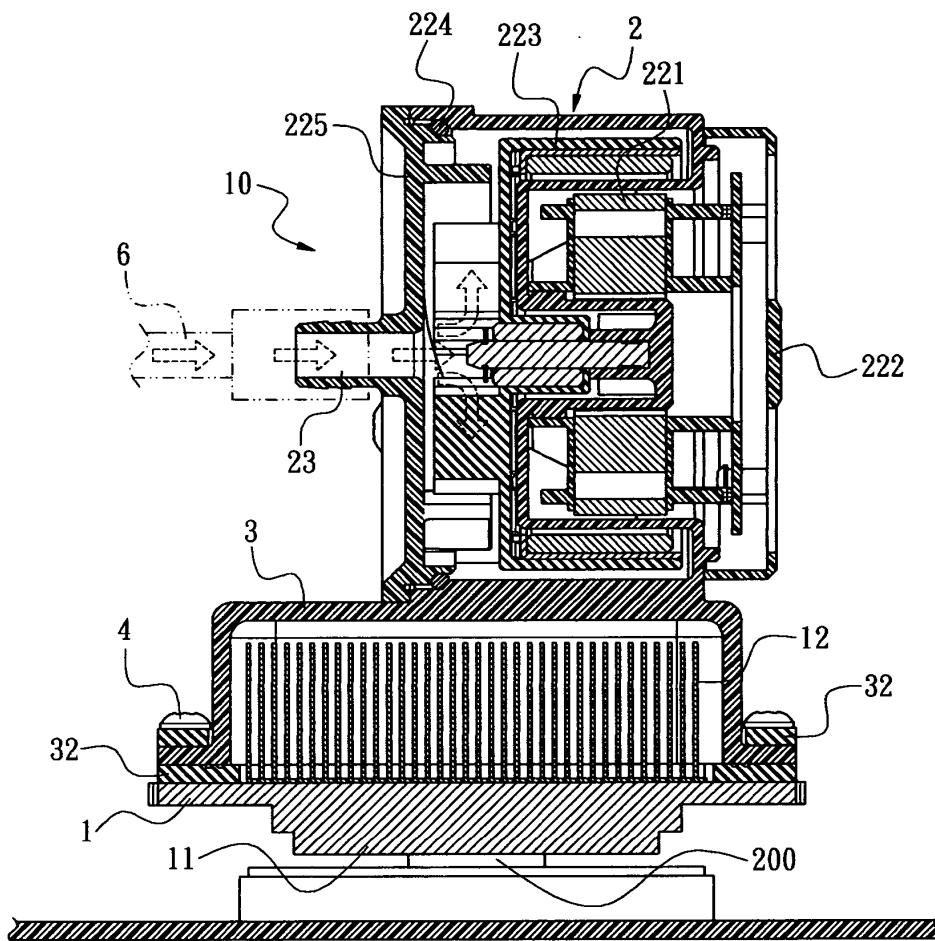
Publication Classification

(51) **Int. Cl.**

F28D 15/00 (2006.01)

(52) **U.S. Cl.** **165/104.33**

A cooling plate module includes a cooling plate and a liquid driving module. The liquid driving module includes an accommodation chamber and a liquid driving unit used to driving cooling liquid. The liquid driving module includes a liquid inlet communicated to the accommodation chamber and a first liquid outlet is communicated to the bottom of the accommodation chamber. A cap encloses the first liquid outlet and a second liquid outlet is defined on the cap. The cooling plate is assembled with the cap to define a closed space therein and the first liquid outlet is corresponding to the heat-dissipating plates. Therefore, there is no duct connecting between the cooling plate and the liquid driving module, the stagnant problem caused by pressure difference can be prevented and the cool liquid can directly flush the heat-dissipating plates for enhancing heat dissipation efficiency.



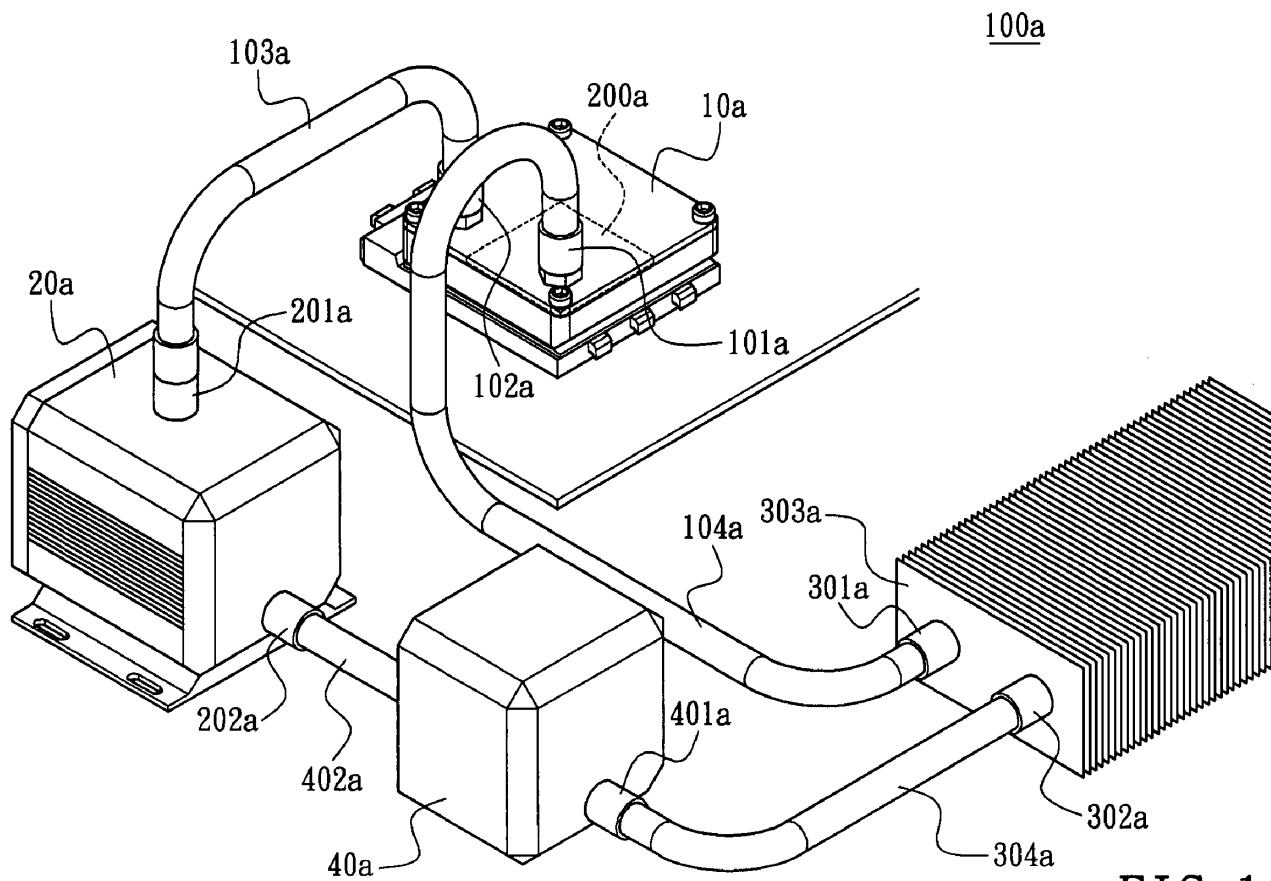


FIG. 1
PRIOR ART

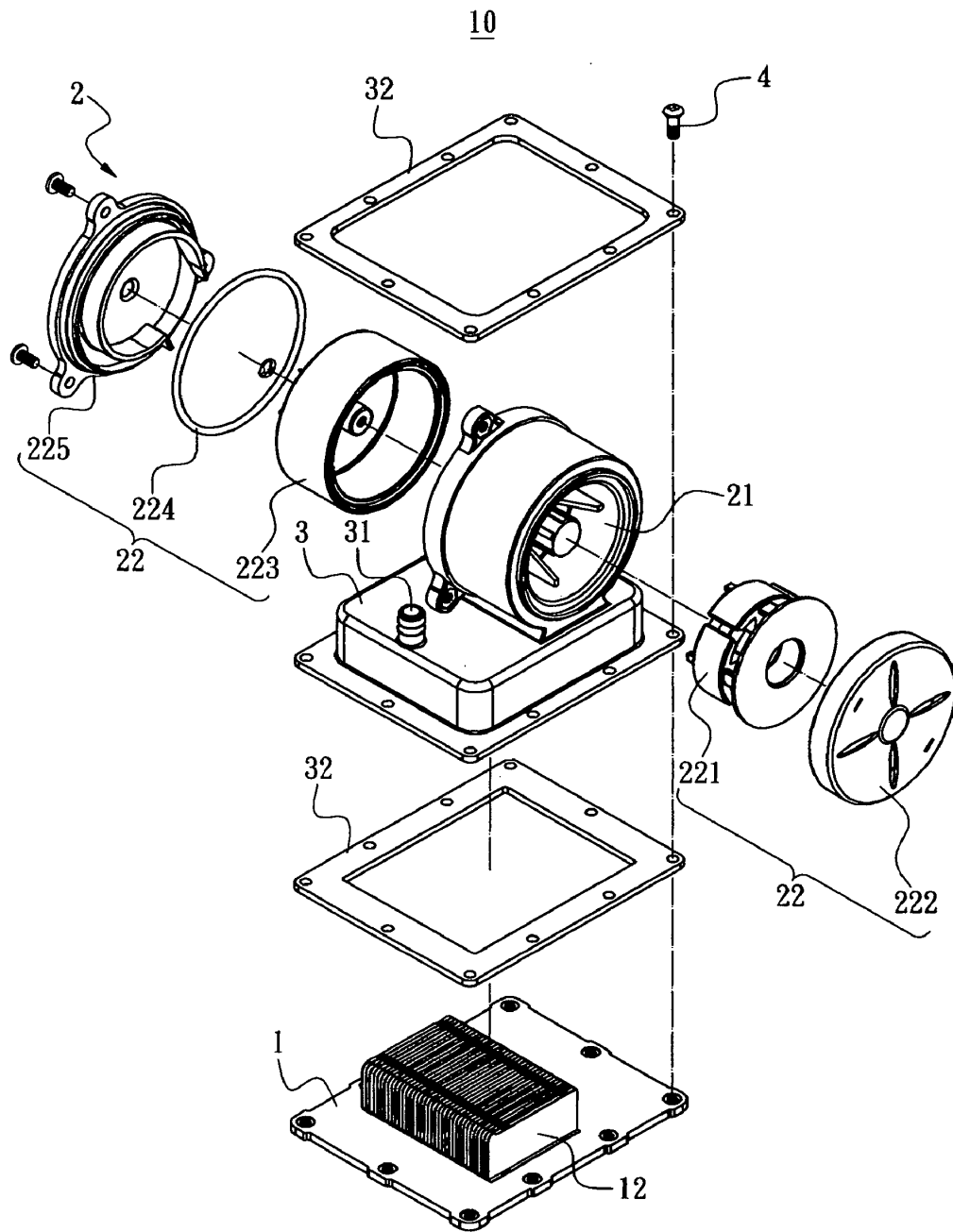


FIG. 2

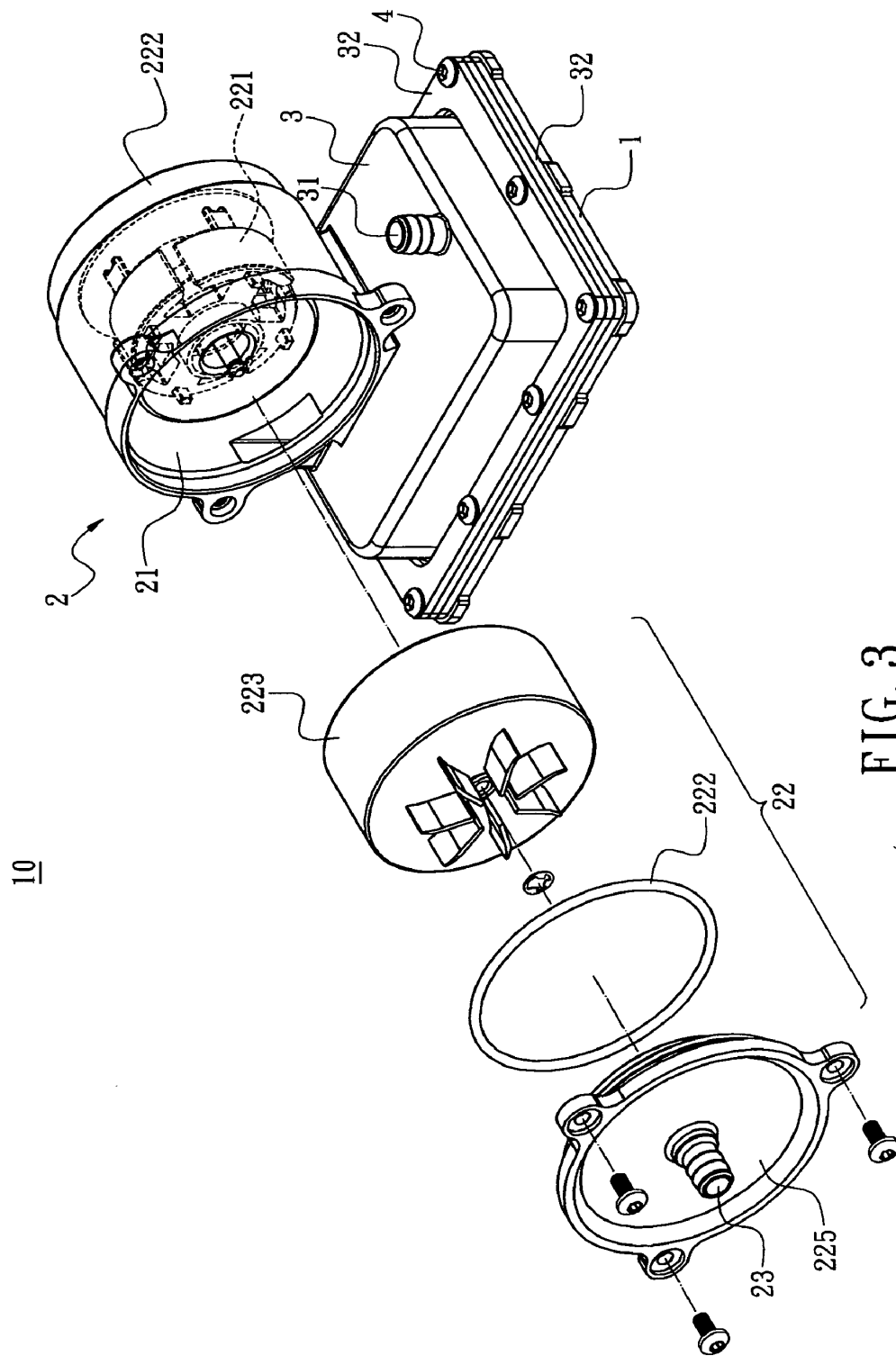


FIG. 3

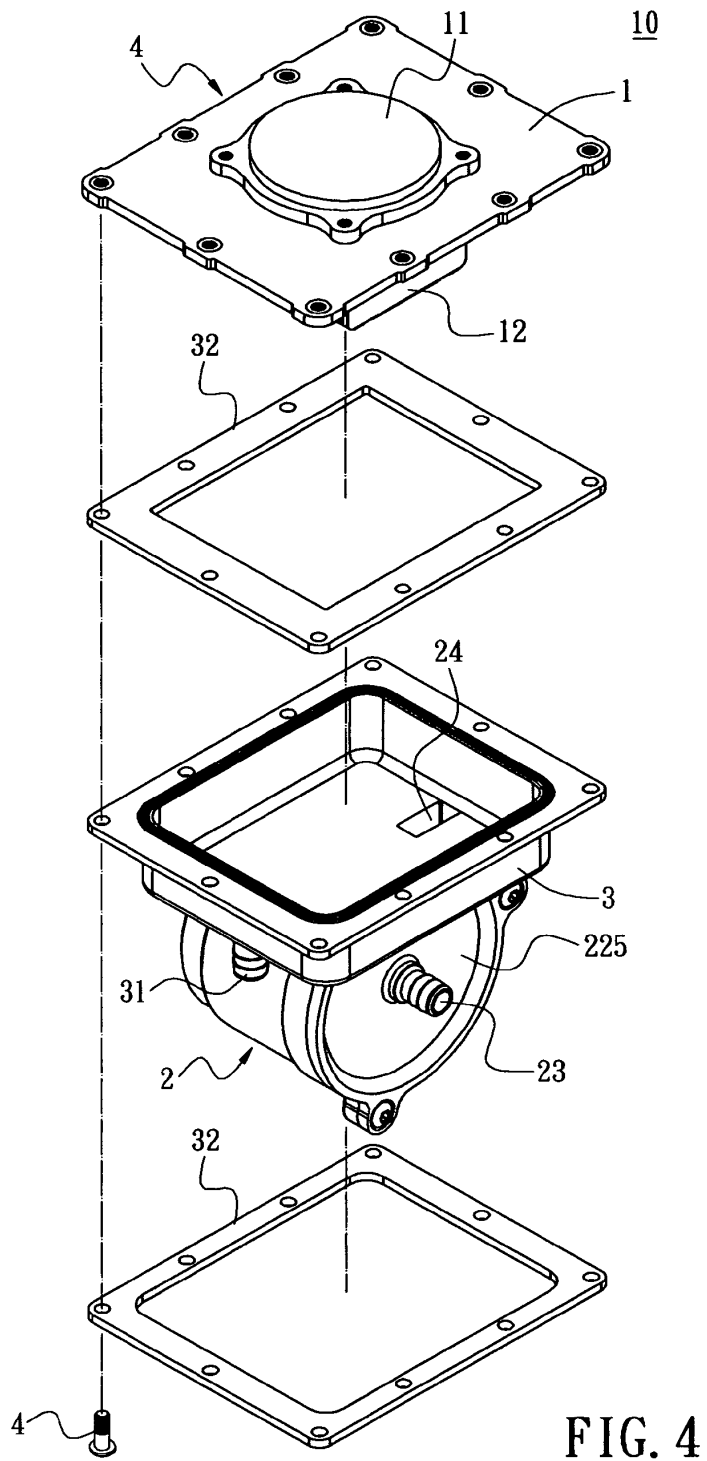


FIG. 4

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.