

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
BEFORE THE PATENT TRIAL AND APPEAL BOARD**

Affidavit of Jason Lesowitz

I, Jason Lesowitz, hereby declare as follows:

1. I am a citizen of the United States of America and I am over 18 years of age. I have personal knowledge of the matters stated in this affidavit, all of which are true and correct.

2. I am a freelance Translator for TransPerfect Translations.

3. I submit this declaration to certify the accuracy of the translation I performed relating to a document labelled “Thermaltake - EX1003, IPR2024-01230 (Thermaltake v. Lian Li Industrial, et al),” bearing the heading of “Intellectual Property Office Ministry of Economic Affairs Republic of China,” and further stating an Application Date of Dec. 26, 2018, and an Application No. of 107217659 (hereinafter “Ex1003-TW107217659”).

4. I am qualified to translate Chinese technical documents into English, including translating Chinese patent documents into English. My qualifications include 14 years of experience as a Chinese-to-English translator of academic and technical documents including patent documents. I am a native speaker of English and I have passed the Master Level of the Test of Chinese as a Foreign Language.

5. Attached as **Exhibit A** is a true and accurate copy of Ex1003-TW107217659.

6. Attached as **Exhibit B** is a true and accurate copy of an English translation of Ex1003-TW107217659, which I prepared based on **Exhibit A** and my personal knowledge of the Chinese and English languages.

7. I understand that by submitting this declaration I may be called to testify about the facts contained in this affidavit and/or my translation of Ex1003-

TW107217659, and I agree to make myself available to testify at a reasonable location and time.

8. I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code.

Date: September 21, 2025

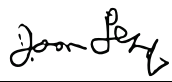
By: 
Jason Lesowitz

Exhibit A



中華民國經濟部智慧財產局

INTELLECTUAL PROPERTY OFFICE
MINISTRY OF ECONOMIC AFFAIRS
REPUBLIC OF CHINA

茲證明所附文件，係本局存檔中原申請案的副本，正確無訛，
其申請資料如下：

This is to certify that annexed is a true copy from the records of this office of
the application as originally filed which is identified hereunder：

申請 日：西元 2018 年 12 月 26 日
Application Date Dec. 26, 2018

申請 案 號：107217659
Application No.

申請 人：陳建豪
Applicant(s)

新 型 創 作 人：陳建豪
Inventor(s)

局 長
Director General

洪淑敏

西元 2019 年 04 月 09 日
Apr. 9, 2019

新型摘要

【新型名稱】(中文/英文) 可多組連接之電腦用發光風扇

【中文】

一種可多組連接之電腦用發光風扇，包括一本體，其本體中央位置設有一扇葉，該本體頂部於該扇葉至少兩側位置上係設有一發光區域，而該本體一側則設有一電源插座以及一第一連接器，該本體另側則設有一第二連接器，且該電源插座係分別與該第一連接器、第二連接器、扇葉及發光區域電性連接，藉以使該本體一側之電源插座插電後，可驅動該本體之扇葉轉動以及該發光區域發光，且該本體之第一連接器與另一本體之第二連接器接合後，可驅動另一本體之扇葉轉動以及該發光區域發光。

【英文】

【代表圖】

【本案指定代表圖】：第（ 1 ）圖。

【本代表圖之符號簡單說明】：

- 1：本體
- 2：扇葉
- 3：發光區域
- 4：電源插座
- 5：第一連接器
- 51：導通端子
- 6：第二連接器
- 61：導電接觸面
- 7：卡槽
- 8：卡塊

新型專利說明書

(本說明書格式、順序，請勿任意更動)

【新型名稱】(中文/英文)

可多組連接之電腦用發光風扇

【技術領域】

【0001】 本創作係有關一種結構簡單、可多組連接之電腦用發光風扇，特別適用於桌上型電腦之使用者。

【先前技術】

【0002】 近年來，計算機裝置發展日新月異，隨著時代演進，何處都可見到計算機裝置的應用，成為今日所稱的電腦。電腦具有多種執行、計算的功能，能夠滿足人們的需求。例如個人電腦於家庭生活中具有娛樂、文書處理、影像播放等功能。工業電腦為工廠運作提供控管、監督已及運算等服務，車用電腦提供駕駛者與乘客多媒體娛樂，以及即時接收資訊的功能。整體來說，電腦已成為人類社會生活不可或缺的裝置。

【0003】 又，隨著電腦規格需求日益提高，因此電腦機殼內部的散熱也越來越受到重視，因此使用者在組裝時，大多會以增加風扇之設置，來將電腦機殼內累積的熱能向外排出。然而，每個風扇皆必須利用獨立的電源線去連接電源器供應器，因此在電源供應器提供有限之電源連接數量，風扇能組裝的數量勢必也受到影響，使得散熱之效能大打折扣，且亦造成電腦機殼內部線路增加後，拉線或理線之困難。

【新型內容】

【0004】 有鑑於此，為了提供一種有別於習用技術之結構，提高電腦

機殼內部之散熱效率，本創作人積多年的經驗及不斷的研發改進，遂有本創作之產生。

【0005】 本創作之主要目的在提供一種結構簡單、可多組連接之電腦用發光風扇。

【0006】 為達上述之目的，本創作所設之一種可多組連接之電腦用發光風扇，包括一本體，其本體中央位置設有一扇葉，該本體頂部於該扇葉至少兩側位置上係設有一發光區域，而該本體一側則設有一電源插座以及一第一連接器，該本體另側則設有一第二連接器，且該電源插座係分別與該第一連接器、第二連接器、扇葉及發光區域電性連接，藉以使該本體一側之電源插座插電後，可驅動該本體之扇葉轉動以及該發光區域發光，且該本體之第一連接器與另一本體之第二連接器接合後，可驅動另一本體之扇葉轉動以及該發光區域發光。

【0007】 實施時，該第一連接器係設有導通端子，而第二連接器則設有可與該導通端子電性連接之導電接觸面，使得該本體之第一連接器與另一本體之第二連接器接合後，可驅動另一本體之扇葉轉動以及該發光區域發光。

【0008】 實施時，該本體與另一本體連接後，該兩本體之發光區域可形成一連續之發光區域。

【0009】 實施時，該本體一側設有一卡槽，另一側則設有可卡入該卡槽之卡塊，藉以使該本體之卡槽與另一本體之卡塊卡合後，形成該兩本體之結合。

【0010】 為進一步瞭解本創作，以下舉較佳之實施例，配合圖式、圖

號，將本創作之具體構成內容及其所達成的功效詳細說明如下。

【圖式簡單說明】

【0011】

第1圖係為本創作實施例中本體之外觀示意圖。

第2圖係為本創作實施例中兩本體組合前之示意圖。

第3圖係為本創作實施例中多個本體組合後之外觀示意圖。

【實施方式】

【0012】 請參閱第1~3圖，其為本創作可多組連接之電腦用發光風扇之一實施例。

【0013】 本創作所設之一種可多組連接之電腦用發光風扇，包括一本體1，其本體1中央位置設有一扇葉2，該本體1頂部於該扇葉2至少兩側位置上係設有一發光區域3，而該本體1一側則設有一電源插座4以及一第一連接器5，該本體1另側則設有一第二連接器6，且該電源插座4係分別與該第一連接器5、第二連接器6、扇葉2及發光區域3電性連接。

【0014】 藉此，該本體一側之電源插座4插電後，可驅動該本體1之扇葉2轉動以及該發光區域3發光。

【0015】 而當組合兩本體1而欲形成多組風扇時（如第2、3圖所示），該第一連接器5係設有導通端子51，而第二連接器6則設有可與該導通端子51電性連接之導電接觸面61，使得該本體1之第一連接器5與另一本體1之第二連接器6接合後，可驅動另一本體1之扇葉2轉動以及該發光區域3發光，且該本體1與另一本體1連接後，該兩本體1之發光區域3可形成一連續之發光區域3。又，該本體1一側設有一卡槽7，另一側則設有可卡入該卡槽7之卡塊8，

藉以使該本體1之卡槽7與另一本體1之卡塊8卡合後，形成該兩本體1之結合。

【0016】 因此，組合後，原本兩個可獨立使用的風扇即可組合在一起，並藉由其中一個本體之電源插座與電腦的電源供應器連接取得電源後，即可同步驅動該兩本體的扇葉轉動以及發光區域發光，可大幅減少電源供應器電源連接線不足之問題，以及減少電腦內部過多線路之問題，且透過本創作之組合設計，可提高電腦內部任一位置需要較大風量散熱之效率。

【0017】 以上所述乃是本創作之具體實施例及所運用之技術手段，根據本文的揭露或教導可衍生推導出許多的變更與修正，仍可視為本創作之構想所作之等效改變，其所產生之作用仍未超出說明書及圖式所涵蓋之實質精神，均應視為在本創作之技術範疇之內，合先陳明。

【0018】 綜上所述，依上文所揭示之內容，本創作確可達到新型之預期目的，提供一種結構簡單且成本低之可多組連接之電腦用發光風扇，極具實用性與產業上利用之價值，爰依法提出新型專利申請。

【符號說明】

【0019】

- 1：本體
- 2：扇葉
- 3：發光區域
- 4：電源插座
- 5：第一連接器
- 51：導通端子

6：第二連接器

61：導電接觸面

7：卡槽

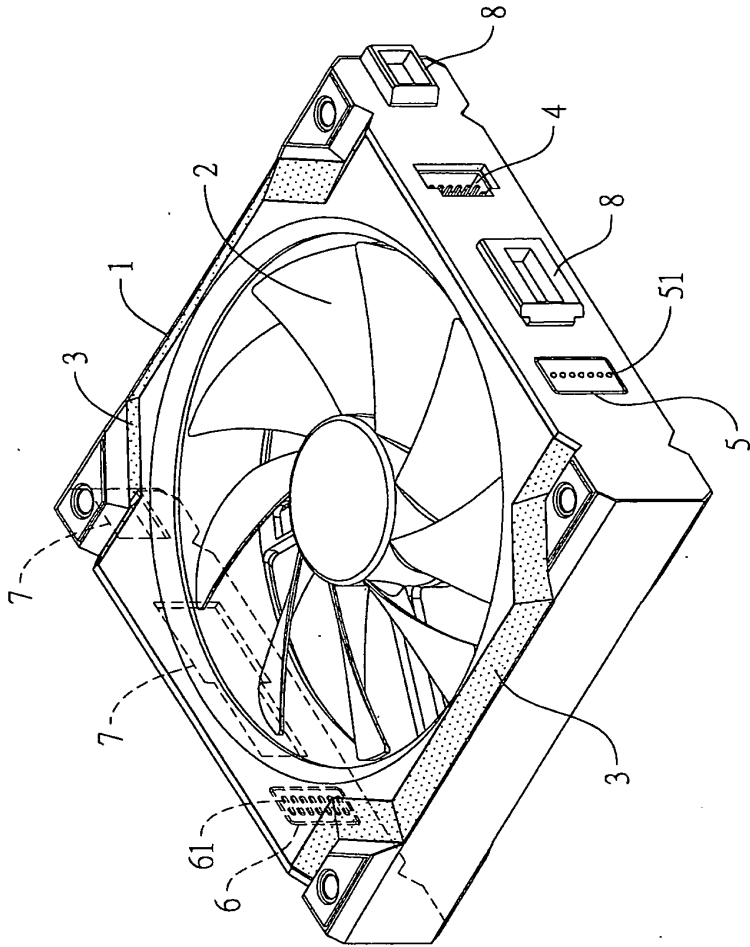
8：卡塊

申請專利範圍

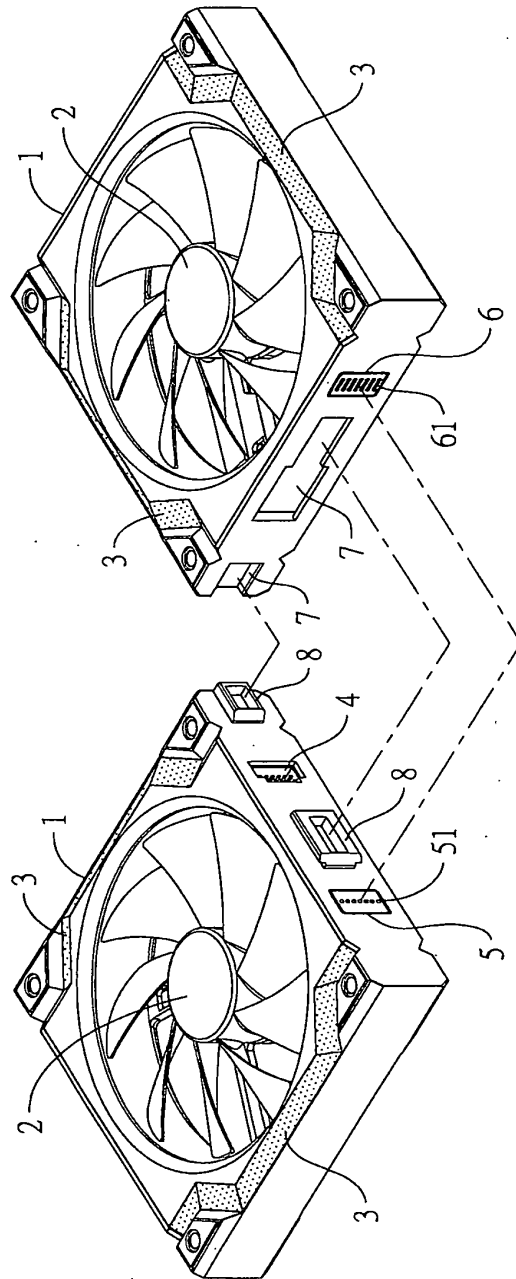
- 1、一種可多組連接之電腦用發光風扇，包括：

一本體，其本體中央位置設有一扇葉，該本體頂部於該扇葉至少兩側位置上係設有一發光區域，而該本體一側則設有一電源插座以及一第一連接器，該本體另側則設有一第二連接器，且該電源插座係分別與該第一連接器、第二連接器、扇葉及發光區域電性連接，藉以使該本體一側之電源插座插電後，可驅動該本體之扇葉轉動以及該發光區域發光，且該本體之第一連接器與另一本體之第二連接器接合後，可驅動另一本體之扇葉轉動以及該發光區域發光。
- 2、如申請專利範圍第1項所述之可多組連接之電腦用發光風扇，其中該第一連接器係設有導通端子，而第二連接器則設有可與該導通端子電性連接之導電接觸面，使得該本體之第一連接器與另一本體之第二連接器接合後，可驅動另一本體之扇葉轉動以及該發光區域發光。
- 3、如申請專利範圍第1項所述之可多組連接之電腦用發光風扇，其中該本體與另一本體連接後，該兩本體之發光區域可形成一連續之發光區域。
- 4、如申請專利範圍第1項所述之可多組連接之電腦用發光風扇，其中該本體一側設有一卡槽，另一側則設有可卡入該卡槽之卡塊，藉以使該本體之卡槽與另一本體之卡塊卡合後，形成該兩本體之結合。

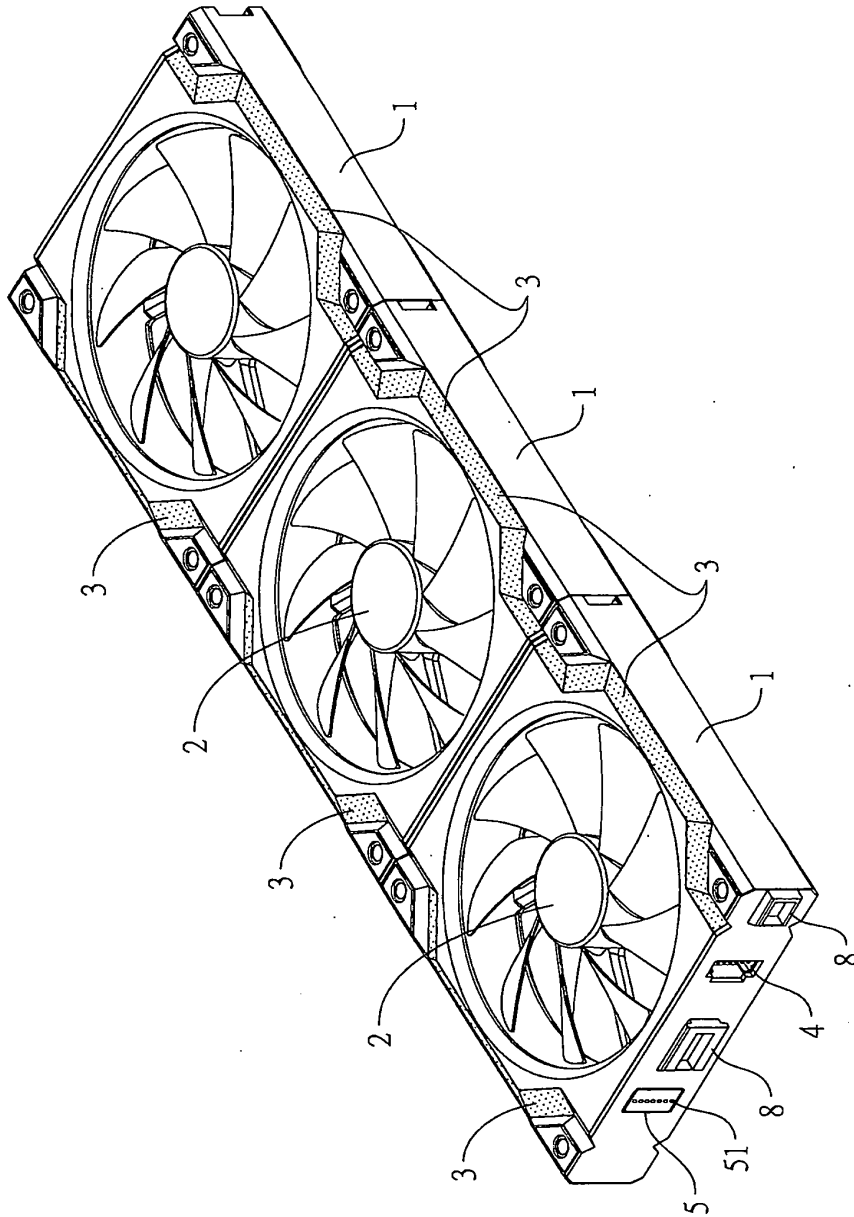
圖式



圖一 梁

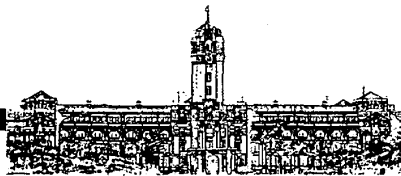


第 2 圖



第3圖

Exhibit B



**Intellectual Property Office,
Ministry of Economic Affairs, Republic of China**

INTELLECTUAL PROPERTY OFFICE
MINISTRY OF ECONOMIC AFFAIRS
REPUBLIC OF CHINA

This is to certify that the attached document is a true and correct copy
of the original application filed with this office. The application
materials are as follows:

This is to certify that annexed is a true copy from the records of this office of
the application as originally filed which is identified hereunder:

Application Date : December 26, 2018

Application Date Dec. 26, 2018

Application No. : 107217659

Application No.

Applicant(s) : Chien-Hao Chen

Applicant(s)

Inventor(s) : Chien-Hao Chen

Inventor(s)

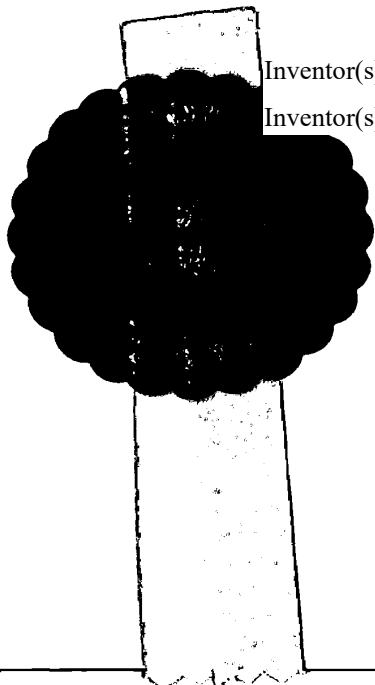
Director General

Director General

[stamp:] Shu-Min Hung

April 9, 2019

Apr. 9, 2019



Summary of the Utility Model

[Name of the Utility Model] (Chinese/English) Light-emitting Fan for a Computer Capable of Multiple Connections

[Chinese]

A light-emitting fan for a computer capable of multiple connections, comprising a body, with a blade in the central position of the body. The top of the body on at least two sides of the blade is equipped with a light-emitting area, and one side of the body has a power outlet and a first connector. The other side of the body has a second connector, and the power outlet is electrically connected to the first connector, the second connector, the blade, and the light-emitting area. This allows the power outlet on one side of the body to power the rotation of the blade and the illumination of the light-emitting area of the body after it is plugged in. Additionally, when the first connector of the body is connected to the second connector of another body, it can drive the rotation of the blade and the illumination of the light-emitting area of the other body.

[English]

[Representative Figures]

[Designated Representative Figure of This Application]: FIG. (1).

[Brief Description of the Symbols in This Representative Figure]:

- 1: Body
- 2: Blade
- 3: Light-emitting area
- 4: Power outlet
- 5: First connector
- 51: Conductive terminal
- 6: Second connector
- 61: Conductive contact surface
- 7: Card slot
- 8: Card block

Utility Patent Specification

(Please do not change the format and order of this specification arbitrarily)

[Name of Utility Model] (Chinese/English)

Light-emitting fan for a computer capable of multiple connections

[Technical Field]

[0001] The present invention relates to a light-emitting fan for a computer with a simple structure capable of multiple connections and is particularly suitable for users of desktop computers.

[Prior Art]

[0002] In recent years, computing devices have developed rapidly. As the times evolve, computing devices can be seen everywhere, becoming what we call computers today. Computers have a variety of execution and calculation functions that can meet people's needs. For example, personal computers have functions such as entertainment, document processing, and image playback in home life. Industrial computers provide control, monitoring, and computing services for factory operations, while automotive computers provide drivers and passengers with multimedia entertainment and the ability to receive real-time information. Overall, computers have become an indispensable device in human social life.

[0003] Furthermore, as the requirements for computer specifications continue to increase, heat dissipation inside the computer case has also received more and more attention. Therefore, when assembling the computer, most users will add fans to discharge the heat accumulated in the computer case to the outside. However, each fan must be connected to the power supply using an independent power cable. Therefore, the limited number of power connections provided by the power supply will inevitably limit the number of fans that can be installed, greatly reducing cooling efficiency. This also makes it difficult to pull or manage cables after the amount of internal wiring in the computer case increases.

[Content of the Utility Model]

[0004] In view of this, to provide a structure different from the conventional technology and improve heat dissipation efficiency inside the computer case, the inventor

has accumulated many years of experience and carried out continuous research, development, and improvement, thus producing the present invention.

[0005] The main purpose of the present invention is to provide a light-emitting fan for a computer with a simple structure capable of multiple connections.

[0006] To achieve the above purpose, the present invention provides a light-emitting fan for a computer capable of multiple connections, comprising a body, with a blade in the central position of the body. The top of the body on at least two sides of the blade is equipped with a light-emitting area, and one side of the body has a power outlet and a first connector. The other side of the body has a second connector, and the power outlet is electrically connected to the first connector, the second connector, the blade, and the light-emitting area. This allows the power outlet on one side of the body to power the rotation of the blade and the illumination of the light-emitting area of the body after it is plugged in. Additionally, when the first connector of the body is connected to the second connector of another body, it can drive the rotation of the blade and the illumination of the light-emitting area of the other body.

[0007] In an embodiment, the first connector is provided with a conductive terminal and the second connector is provided with a conductive contact surface that can be electrically connected to the conductive terminal, so that when the first connector of the body is connected to the second connector of another body, it can drive the rotation of the blade and the illumination of the light-emitting area of the other body.

[0008] In an embodiment, after the body is connected to another body, the light-emitting areas of the two bodies can form a continuous light-emitting area.

[0009] In an embodiment, the body has a card slot on one side and a card block that can be snapped into the card slot on the other side, so that the card slot of the body and the card block of the other body are engaged with each other to form a combination of the two bodies.

[0010] In order to further understand the present invention, the following preferred embodiment is given, and the specific components of the present invention and the effects achieved are described in detail with the help of figures and figure numbers.

[Brief Description of the Figures]

[0011]

FIG. 1 is a schematic diagram of the external appearance of the body in the embodiment of the present invention.

FIG. 2 is a schematic diagram of two bodies before they are combined in the embodiment of the present invention.

FIG. 3 is a schematic diagram of the external appearance of multiple bodies after they are combined in the embodiment of the present invention.

[Embodiments]

[0012] Please refer to FIGS. 1-3 for an embodiment of the light-emitting fan for a computer capable of multiple connections of the present invention.

[0013] The present invention provides a light-emitting fan for a computer capable of multiple connections, comprising a body 1, with a blade 2 in the central position of the body 1. The top of the body 1 on at least two sides of the blade 2 is equipped with a light-emitting area 3, and one side of the body 1 has a power outlet 4 and a first connector 5. The other side of the body 1 has a second connector 6, and the power outlet 4 is electrically connected to the first connector 5, the second connector 6, the blade 2, and the light-emitting area 3.

[0014] This allows the power outlet 4 on one side of the body to power the rotation of the blade 2 and the illumination of the light-emitting area 3 of the body 1 after it is plugged in.

[0015] When combining the two bodies 1 to form multiple fans (as shown in FIGS. 2 and 3), the first connector 5 is provided with a conductive terminal 51 and the second connector 6 is provided with a conductive contact surface 61 that can be electrically connected to the conductive terminal 51, so that when the first connector 5 of the body 1 is connected to the second connector 6 of another body 1, it can drive the rotation of the blade 2 and the illumination of the light-emitting area 3 of the other body 1. After the body 1 is connected to the other body 1, the light-emitting areas 3 of the two bodies 1 can form a continuous light-emitting area 3. In addition, the body 1 has a card slot 7 on one side and a card block 8 that can be snapped into the card slot 7 on the other side, so that the card

slot 7 of the body 1 and the card block 8 of another body 1 are engaged with each other to form a combination of the two bodies 1.

[0016] Therefore, after combining, the two fans that could originally be used independently can be combined into one. By connecting the power outlet of one of the bodies to the computer's power supply, the rotation of the fan blades and the illumination of the light-emitting areas of the two bodies can be driven simultaneously. This can greatly reduce the problem of insufficient power supply connection cables and reduce excessive wiring inside the computer. In addition, through the combined design of the present invention, the efficiency of heat dissipation at any location inside the computer that requires a large air volume can be improved.

[0017] The above is a specific embodiment of this creation and the technical means used. Many changes and modifications can be derived from the disclosure or teaching of this article, and they can still be regarded as equivalent changes made to the idea of this invention. The effects they produce still do not exceed the essential spirit covered by the specification and figures and should be regarded as within the technical scope of the present invention.

[0018] In summary, based on the content disclosed above, the present invention can indeed achieve the intended purpose of the utility model, providing light-emitting fan for a computer with a simple structure and low cost capable of multiple connections. It is extremely practical and has industrial application value, and a utility patent application is hereby filed in accordance with the law.

[Description of the Symbols]

[0019]

- 1: Body
- 2: Blade
- 3: Light-emitting area
- 4: Power outlet
- 5: First connector
- 51: Conductive terminal

- 6: Second connector
- 61: Conductive contact surface
- 7: Card slot
- 8: Card block

Scope of the Patent Application

1. A light-emitting fan for a computer capable of multiple connections, comprising:
a body, with a blade in the central position of the body. The top of the body on at least two sides of the blade is equipped with a light-emitting area, and one side of the body has a power outlet and a first connector. The other side of the body has a second connector, and the power outlet is electrically connected to the first connector, the second connector, the blade, and the light-emitting area. This allows the power outlet on one side of the body to power the rotation of the blade and the illumination of the light-emitting area of the body after it is plugged in. Additionally, when the first connector of the body is connected to the second connector of another body, it can drive the rotation of the blade and the illumination of the light-emitting area of the other body.
2. The light-emitting fan for a computer capable of multiple connections as described in Item 1 of the patent application, wherein the first connector is provided with a conductive terminal and the second connector is provided with a conductive contact surface that can be electrically connected to the conductive terminal, so that when the first connector of the body is connected to the second connector of another body, it can drive the rotation of the blade and the illumination of the light-emitting area of the other body.
3. The light-emitting fan for a computer capable of multiple connections as described in Item 1 of the patent application, wherein after the body is connected to another body, the light-emitting areas of the two bodies can form a continuous light-emitting area.
4. The light-emitting fan for a computer capable of multiple connections as described in Item 1 of the patent application, wherein the body has a card slot on one side and a card block that can be snapped into the card slot on the other side, so that the card slot of the body and the card block of another body are engaged with each other to form a combination of the two bodies.

Figures

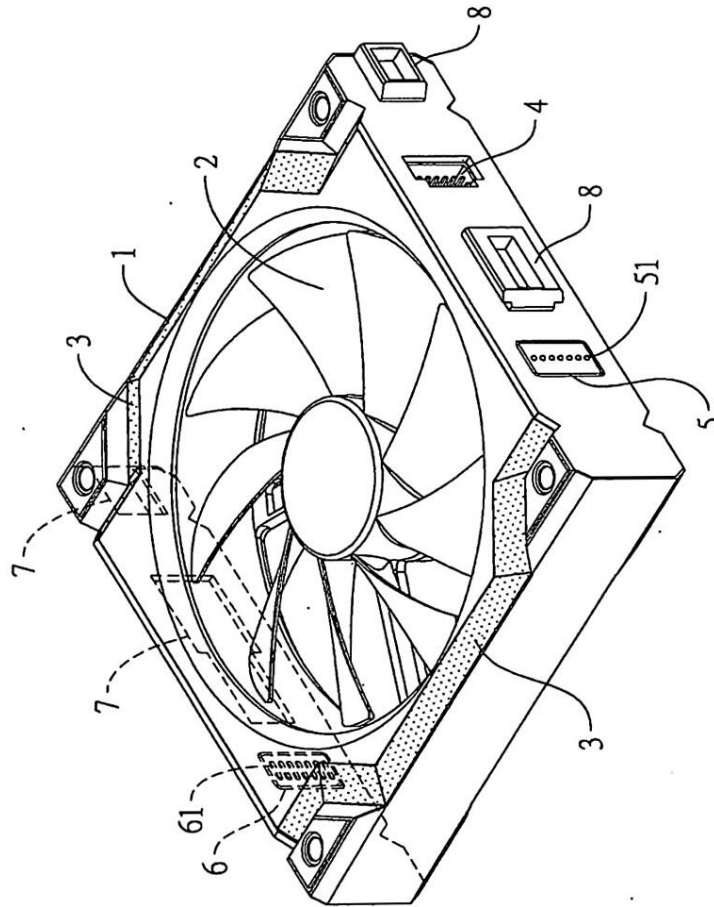


FIG. 1

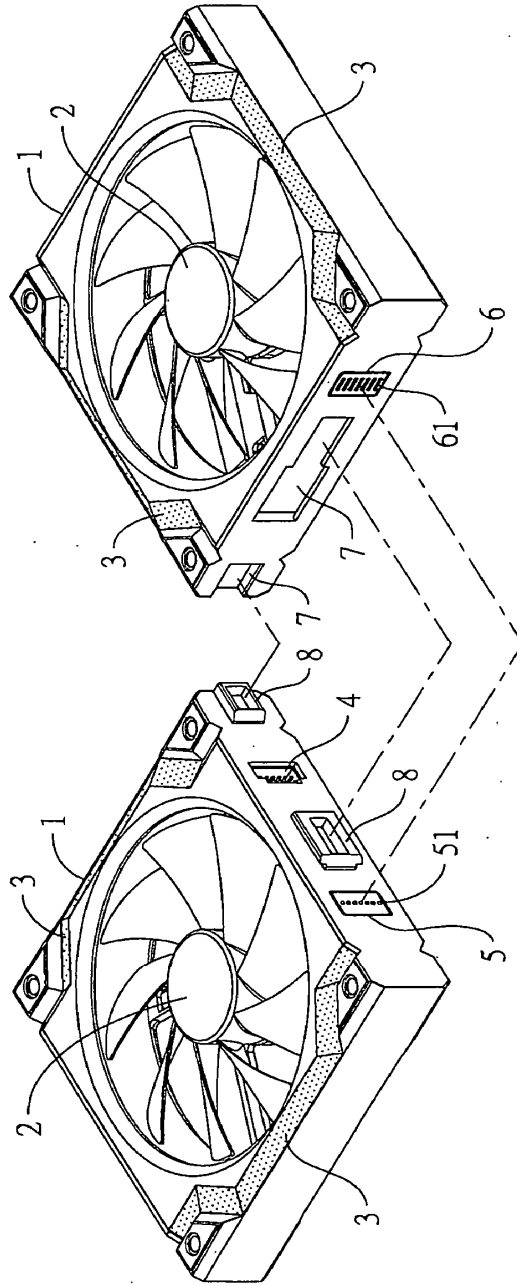


FIG. 2

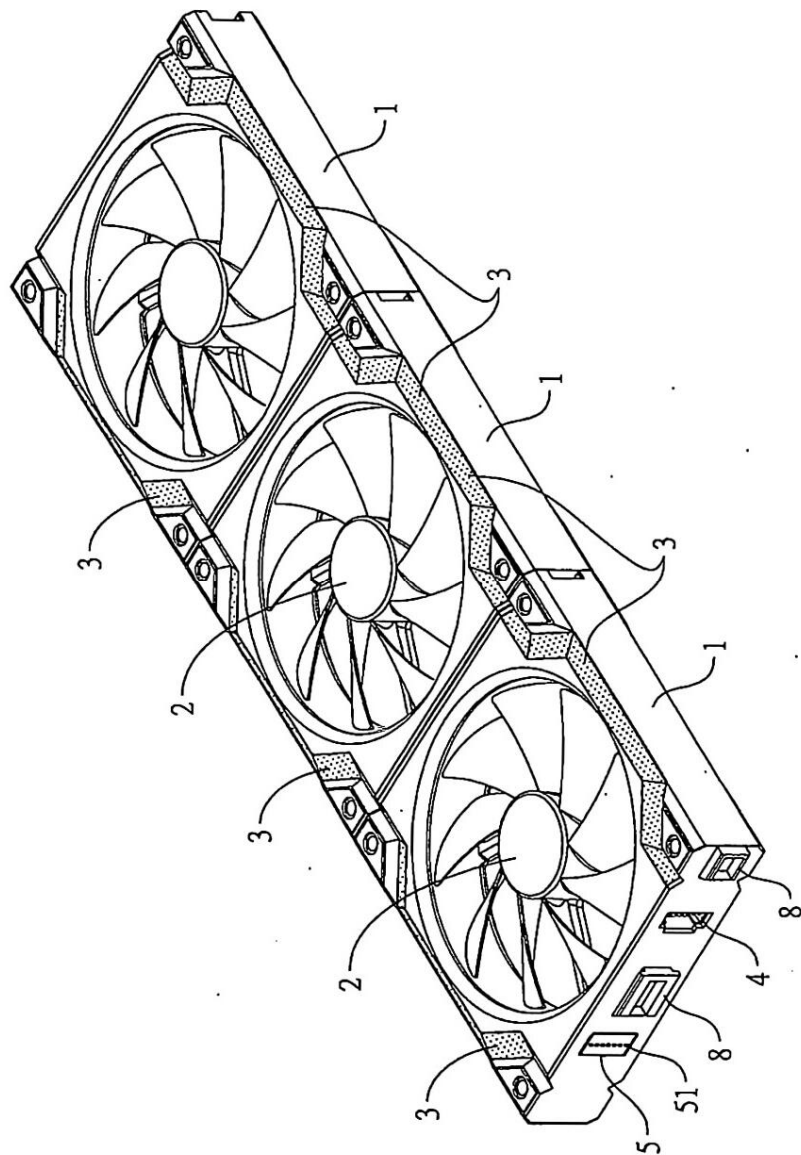


FIG. 3