

中華科技大學

CHINA UNIVERSITY OF SCIENCE AND TECHNOLOGY

102 年專利

系別：工業工程與管理系

Department : Industrial Engineering
and Management

題目：可多人無線聽診之藍芽聽診
裝置

Subject : A Bluetooth stethoscope
apparatus for multi-user
diagnosing wirelessly

計畫主持人：陳國晃

Main Planner : Kou-Huang Chen

研究成果：

本創作係有關於一種可多人無線聽診之藍芽聽診裝置，其包括聽診器、及藍芽耳機。聽診器之高感度麥克風擷取聽診器所取得之體內音訊，並將之轉換為量測電訊。聽診器之微控制器電性連接高感度麥克風、及一藍芽傳輸模組，且微控制器控制藍芽傳輸模組發送量測電訊。其中，藍芽耳機與聽診器上的藍芽傳輸模組建立連線後，接收來自無線傳輸模組所發送之量測電訊並將之轉換為聽診音訊而輸出。據此，本創作能藉由藍芽無線傳輸達成多人會診、或教學之診療方式，並可通用市面上現有之藍芽耳機、或藍芽模組，而無須另外購置或設計新的專屬耳機模組。

英文摘要：

This creation is an apparatus relating to a Bluetooth stethoscope for multi-user diagnosing. It includes a stethoscope and a Bluetooth earphone. The built-in highly sensitive microphone gets the message within the body from the stethoscope, and then transmits it into measuring signal. The micro-controller is connected electrically to the highly sensitive microphone and Bluetooth transmit ion module, and will control the Bluetooth transmit ion module to send the measurable signal. After the connecting between the Bluetooth earphones and the Bluetooth transmit ion module in stethoscope is built, the measuring signal received from the Bluetooth transmit ion module will be transformed into stethoscopic signal, and then be outputted; Accordingly, this creation can make it a reality to hold a group consultations or medical training, and is also compatible with the Bluetooth earphones or module in hand, without purchasing or redesigning the custom earphone module.

圖片介紹：

