

ABSTRACT

There are provided an apparatus and a method for simulatively measuring an environment in a microspace between a human skin and a wound dressing. The simulative environment-measuring apparatus comprises a constant temperature-and-humidity chamber 14 for controlling an external environment; a heat exchanger 12 disposed in the chamber 14; a constant temperature water bath 10 and a pump 11 for supplying warm water to the heat exchanger; and a container 1 which is set on the heat exchanger 12 and is easily detachable therefrom. The container 1 holds a water retentive member 2 therein, and is covered at its upper opening with a water vapor diffusion-controlling member 4. A microspace 6 formed between the water vapor diffusion-controlling member 4 and a wound dressing 5 placed on the member 4 is a simulatively reproduced space between a human skin and the wound dressing 5. A thin temperature-and-humidity sensor 7 is set in this microspace 6 to measure temperature and humidity with time. When plural containers 1 are used, environments of plural wound dressings 5 can be measured at once.



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