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Application of conductive elastic fabric in head presser to cure headache and decrease the body temperature in fever

Muhammad Saqib Eijaz, M Iqbal Bhatti, Salman M Ilyas and Adnan Khan
Ziauddin University, Pakistan

Headache is very common and sometimes causes irritation in humans. There are many medicines, head massagers and traditional pressing techniques of head used for the treatment of headache. In this vicinity, there is a need to develop such a technique or device which replaces the use of medicines, head massagers and traditional pressing of head by humans. Head presser is a very useful innovation, it can press head in headaches just like humans and also it can absorb body heat in fever. For this purpose, conductive elastic fabric is used as forehead clothing which can decrease body temperature by absorbing its heat. It is a medical grade silver-plated nylon fabric that offers the unique ability to stretch evenly in both directions. To generate the sensation of head pressing by humans, two motors are used in head presser, one for inserting fluid i.e., water or air in conductive elastic clothing and the other for exerting it out. Air is used to generate the sensation of head pressing whereas water is used for head pressing as well as for decreasing body temperature in fever. The heat absorbing property of conductive elastic clothing helps it in decreasing the body temperature in fever with pressing head. It is a portable battery operated system which can be used anywhere without any need of external power supply and having no side effects. It is concluded that by using the conductive elastic fabric as a clothing material in head presser, we can cure headaches or decrease the body temperature in fever by replacing traditional techniques. In future, by doing more research, this material can also be used for curing muscular pains.

Biography

Muhammad Saqib Eijaz has completed his ME in Communication & Signal Processing from Hamdard University and BS in Biomedical Engineering from Sir Syed University of Engineering & Technology. He is the Senior Lecturer in Ziauddin University, a premier private university in Pakistan.

mehsaq@gmail.com