

New heat-retaining jacket technology helps to combat the record cold weather in the US

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Climate change is gradually causing serious consequences in terms of weather and natural disasters. All calculations of traditional weather that have been drawn over the years are gradually becoming less accurate. The United States is experiencing an unprecedented harsh winter with temperatures in many regions down to -30 degrees Celsius, directly threatening people's lives. Besides basic health protection skills, choosing the right winter clothes is also something that many people care about. Recently, a backup battery-type thermal jacket has been invented and is expected to be piloted for police officers, military personnel and those who often work outdoors, to ensure Health for them before the cut-off cold is raging in the United States.

According to a report by the US Bureau of Statistics, the country has recorded about 1,300 deaths related to cold contamination from the natural environment each year. Besides, according to the conclusion of the Academy of Family Physicians, the sudden drop in body temperature below the allowed level can cause a deep decline in judgment and coma, which can also lead to death. If not detected and intervened promptly.



1. A Chinese company uses GPS to track chickens to make sure they 'eat well and sleep'.

David Gramlin, a graduate of Purdue Polytechnic University of New Albany, is one of those who have been 'lucky' to experience the deadly cold while working on US Air Force B-52s in North Dakota, with temperatures that can drop below 30 degrees Celsius. The experience of those "death-facing" events helped inspire this man to create and develop a line of outerwear. Self-heating ability to help those who have to work outdoors for long periods of time can resist the discomfort and diseases associated with cold weather. This jacket, called Hearth

Jacket, is able to warm itself through thermoelectric technology and is powered by an integrated battery or backup battery via a USB connection.

"Temperature is an obstacle to overcome when you do outdoor jobs in cold weather, just like I had to go through in a military environment. Health is important but work is guaranteed. It is your responsibility to complete it, and the harsh conditions of military flights have led me to the idea of ??creating something that makes people like me feel more comfortable and safe in the process of performing tasks', said David Gramlin.



1. Researchers use computer vision to better understand optical illusion

In addition, David Gramlin has also explained why his team has opted for spare batteries as a power source for general heat retention products, and that the Hearth Jacket heat jacket in particular, is Because of the convenience these batteries offer, including mobility as well as flexible use, these factors can be particularly useful in an hour-long shift of security personnel. security

Hearth Jacket jackets and two other products in the 'collection', including Hearth (Heating Pad) heating plates and Hearth Glove gloves are compatible with any power supply via USB connection, At the same time, it is possible to generate a temperature of up to 140 degrees F (60 degrees C) and maintain this temperature for up to 8 hours (or longer depending on the additional power supply).

Hearth Jacket not only helps protect the user's arms and body against the cold, but is also designed to be able to keep the heat of the hand part with 2 pocket recesses for hand heating. Judith Myers-Walls, Purdue's emeritus professor said that in weather patterns that temperatures drop to extreme levels, the body's icy phenomenon can

appear in just 10 minutes and threaten directly. Next to human life. When sensitive parts like the hands, fingers are kept warm, the body does not need to distribute heat to the arm anymore and can instead focus on adjusting the temperature in other areas of the body.

"We can produce this jacket in large quantities and at the same time can quickly convert the designs as well as make the necessary adjustments to suit the needs and wants of our customers. ", David Gramlin shared.



1. Samsung introduced Bixby Routines, AI technology that can learn habits and anticipate user needs

Besides, Gramlin said he found Hearth products to be most beneficial to those who work outdoors such as police, military personnel, or sanitation workers because they are at risk. face with the most cold-related diseases. However, people with low resistance, young children, and elderly people can also use this product to ensure their health.

In the future, David Gramlin hopes to receive more funding or cooperation with other garment manufacturers to further accelerate the production and application of this thermal retention technology in all fields. another area.

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