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(57) Abstract :

A sheltering device for cold regions, comprises a pair of C-shaped arms 1 attached with each other, thin C-shaped rods 2 attaches the fabric too provide shielding, linkages 3 allows collapsing of the arms 1, a motorized rotary plate 4 holds a helical blade 6, helical blade 6 drills the ice surface, a tactile sensor detects hardness of the ground surface, pneumatic pusher 5 pushes the blade 6, an artificial intelligence-based imaging unit 7 captures images of the vicinity of the arm, -shaped telescopic links 8 attached with flaps 9 removes snow, a temperature sensor detects ambient temperature, Peltier unit raises a temperature, a microphone 10 receives voice command of the user.

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