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(57) Abstract :

The present invention discloses a noise cancellation-enabled helmet (100) designed for firefighters, providing enhanced safety and communication during operations. It incorporates an inbuilt wireless headset (2) with active noise cancellation, a GPS transmitter (5) with distress signal functionality, a fire-resistant face shield (9), a flashlight with a pin hole camera (10), an infrared sensor (8), a fire-resistant neck shield (6), and a rechargeable power bank (11). Additional features include an oxygen mask, a panic beacon (1), a light sensor, and a gas mask (9). These components offer clear communication, real-time tracking, distress signaling, video recording, temperature monitoring, face and neck protection, power supply, visibility, and respiratory protection. The noise cancellation-enabled helmet (100) represents a significant advancement in firefighter safety and operational effectiveness. It enables firefighters to navigate hazardous environments with improved situational awareness and communication capabilities, ensuring their well-being and efficiency in firefighting and emergency situations.

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