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Patent Search

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Abstract:

Fire is one of the main source of human living It is used by nearly by everyone to meet their daily requirements. But it can also become disastrous and risks many innocent lives if not controlled. Fire fighters carry out a major role in putting out high-rise fire risking their life. The proposed invention is an IOT based automatic fire fighting robotic system. This system detects fire automatically using flame sensor and extinguishes it as soon as it detects it. To put out fire it uses water and sprinkles autonomously. In this way the system extinguishes fire on its own without any human intrusion.

Complete Specification

Description:Field of Invention

The present invention is based on IoT that relates to the moving firefighting robot that detects fire and put off water without any human interference.

The Objectives of this Invention

The main objective of this invention is to allow the fire fighters to be safe and secure protecting them from the fire. This robot can be used to handle dangerous environments that is helpful in extinguishing fires.

Background of the Invention

In (CN2019/211188912U), a fire alarm command unit, a cluster regulate unit, tackling type fire identification units, and numerous high-rise fire responders are included in the fire extinguishers mechanism. The fire alarm control module connects to the tackling type fire identification units, communicates a fire signal identified by a tackling fire detection sensor to the fire alarm regulate unit, and magistrates the fire alarm location. In (CN2020/111481865A), the invention describes a fire-fighting robot structure that includes multiple modular tracking robots, surveillance robots, and patrolling fire-fighting automated machinery. The adaptable tracking machines, patrol robots, and patrol fire-fighting machines are coordinated and managed by a command center.

The invention CN2019/211188912U contains the unit of fire alarm, cluster control, fire detection, with many fir fighting robots. As the fire alarm control is connected with detection unit it can transmit signal once fire is detected to the alarm unit. The alarm control unit judges the position based on the alarm. Here the cluster control unit which is in connection with the alarm unit helps to transmit the position information. The system is wireless and all the firefighting robots are connected via cluster unit, hence easy to collect the alarm position and execute the task through fighting robots. This model helps to fight fire with reduced threat

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