An Intelligent High-Altitude Fire-Fighting Apparatus

ABSTRACT

A high-altitude smart fire extinguishing apparatus, comprising: a fire extinguishing cabin (1), a lifting mechanism (2), a vertical guiding mechanism (3), a fire extinguishing mechanism (4), a second automated guided vehicle (5), a horizontal guiding mechanism (6), a support mechanism (7) and a window breaking mechanism (8). By means of the cooperative use of the lifting mechanism and the vertical guiding mechanism, the fire extinguishing cabin suspended above the roof of a building can be lowered to the height position of a fire origin of the building, so as to perform a fire extinguishing operation on the fire origin by using the fire extinguishing mechanism, that is, automated and timely firefighting operations can be implemented without manual operation by people, thus achieving the effects of saving physical strength of firefighters and improving the firefighting and rescue efficiency; the second automated guided vehicle and the horizontal guiding mechanism are provided at the roof of the building, when a fire occurs, by means of the cooperative use of the vertical guiding mechanism, the second automated guided vehicle and the horizontal guiding mechanism, the fire extinguishing cabin can be moved to any place around the building so as to execute firefighting or rescue tasks, thus expanding the usage range of high-altitude smart fire extinguishing apparatuses.

Fig 1.