# An Intelligent Rescue Device


## ABSTRACT

An intelligent rescue device, comprising a rescue capsule (1), a lifting/lowering mechanism (2), a guide mechanism (3), a flexible rope tensioning adjustment mechanism (4), an anti-fall mechanism (5), a central control system (6) and a power supply system (7). By adding the rescue capsule (1) and the lifting/lowering mechanism (2) on a building, when a fire occurs, the rescue capsule (1) hung at a certain position of the roof of the building can be lowered to a landing door of the rescue capsule (1) at the fire origin point of the building by means of the lifting/lowering mechanism (2), so that trapped people in the building can be evacuated and rescued by means of the rescue capsule (1), effectively preventing the situations where structural constraints hinder fire rescue. By adding the guide mechanism (3) and the flexible rope tensioning adjustment mechanism (4) between the lifting/lowering mechanism (2) and the shaft pit floor, when the rescue capsule (1) moves up and down, the rescue capsule (1) can be guided, so that the rescue capsule (1) can stably move up and down, preventing the rescue capsule (1) from swaying or shaking.


Fig 1.