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Title: Study on mobile pneumatic emergency rescue device

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摘要: 可移动充气式应急救护装置是一种重点针对地铁火灾的新型消防抢险救援装备,主要由风机、风管、救护站及其他辅助设备组成,其工作原理是采用机械通风的方式在救护站内建立正压,阻止外界烟气进入,从而在充满烟气的事现场建立一个没有烟气的临时安全场所。可用于救助受困人员,方便消防员更换装备和休息调整,以及便于消防部队建立前沿临时指挥点等,为消防部队处置地铁火灾提供了解决问题的新思路和新方法,对提高消防部队在地铁火灾中的抢险救援能力有着重要的作用。除此之外,还可用于其它类型的地下建筑、大空间建筑(如商场)等场所的消防抢险救援。

Abstract: Consisting of blowers, air ducts, rescue stations and other auxiliary equipment, the mobile pneumatic emergency rescue device is a new-style firefighting emergency rescue equipment targeting at metro fires, with the working principle of adopting mechanical ventilation to create positive pressure so as to prevent the outside smoke entering, thus setting up a temporary smokeless secure place in the smoking accident site. This device can be used to rescue the victims in trouble and help fire fighters to change equipment and rest as well as to establish a temporary headquarter for the fire army in the frontier easily, which provides

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a new way of thinking and method to deal with metro fires and plays an important role in strengthening fire arms' emergency rescue capabilities in metro fires. Besides, it can also be applied to other types of fire emergency rescue places such as underground constructions and large space constructions (department