

Abstract

Hinge for Fireproof Door

The present invention relates to a hinge for a fire door, and more particularly, to a hinge for a fire door in which a water supply path is formed for supplying water from a fire-door frame to the interior of the fire door upon the outbreak of a fire. The hinge for a fire door according to the present invention has the water supply path formed from the doorframe to the door for supplying water contained in the interior of the doorframe to the interior of the door. In addition, an object is to provide a hinge for a fire door which comprises a hinge portion, a door connection portion, and a doorframe connection portion. The hinge unit has a water tank formed therein, and one side thereof is rotatable relative to the other side thereof. One side of the door connection portion is coupled to the door, and the other side thereof is coupled to said one side of the hinge portion, wherein the door connection portion has a first water path extending from the door to the water tank. One side of the doorframe connection portion is coupled to the doorframe, and the other side thereof is coupled to the other side of the hinge portion, wherein the doorframe connection portion has a second water path extending from the doorframe to the water tank. According to the present invention, provided is a hinge in which a water supply path is formed from a doorframe to a door so as to supply water contained in the interior of the doorframe to the interior of the door, making it possible to supply water from the doorframe to the door. Thus, water can be continuously supplied to the interior of the door as well as to the doorframe, thereby not only blocking flames and heat, but also extinguishing the flames.

Figure 2