

Firefighting System with a Governor

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Abstract--This Article primarily draws attention toward the firefighting system. The Article consists of need, history, evolution and the development of the firefighting system. The article basically deals with a firefighting system which runs by a governor to save guard the human life.

Keyword: firefighting, system, governor, life, bag, wire or cable.

I. INTRODUCTION

A fire can made a extreme loss in properties and even death of many individual. The risk of being getting injured during the fire also boost the danger of the fire. Everyone has a diminished capacity to react in a fire emergency so everyone needs to be careful. Some individuals would not want to change their lifestyle and are independent. This mind-set can cause you to overlook fire safety needs that are necessary. In some circumstances, disabled individuals might require the help of care providers to practice fire safety techniques. It is strongly recommended that you choose a home on the ground floor or first floor of a structure, although you have the right to live where you choose. Additionally, it is advised to have the apartment near a fire exit to make the escape easier. All considerations need to be given when building your plan of escape. To ensure you are able to access all of the exits in your escape plan, you should check in advance, particularly if you're utilizing a wheelchair or a walker.

II. DEFINITION

A method which is used to block, prevent, and reduces the fire in a particular area is called as firefighting process. This process involves cutting down of the oxygen supply from the exiting supply. And the corresponding system which is used to prevent the fire is called the firefighting system. For example water.

III. PAST

As most of the fire ignite from the small spark or fire, thus it becomes difficult to diffuse the fire. According to the world health organization, around 100 million people died in India in the last 20th century<reported one>, the actual number is still unknown. Hence, it becomes extremely important for us to develop such means which could help us to prevent the life.

IV. METHODS CURRENTLY ARE IN USE TO DIFFUSE THE FIRE

- 4.1. Fire Extinguisher
- 4.2. Water
- 4.3. Sand Bucket
- 4.4. Hose And Its System
- 4.5. Fire Hydrant System

V. NEED AND EVOLUTION

When the several studies were made to analysis the reason behind the fire, it was observed that most of the loss of the life is not due to the fire but by the suffocation people have when they stuck in the fire. From that company started thinking on how to save the life from fire and hence from then, several research are made on the topic and many incidences are present in the history which draw our attention toward the need to develop the system which could save a life of a man kind. Several different incidences of firefighting system which was developed at that time , but due to some reason they are losted from the mankind are as follow:

1. The first Roman fire brigade was created under Marcus Licinius Crassus.
2. In around the 2nd century BCE, a water pump was invented in Alexandria, Egypt.
3. In 1658, people began using wooden rattles to warn the public of a fire.

4. In 1721 a British inventor by the name of Richard Newsham patented the first fire-engine pump. It was on a wheeled cart and required a few men to work the cross handles.

VI. METHODS USED TO PREVENT LIFE FROM FIRE

- 6.1 Aerial Ladder
- 6.2 Air Bags Etc.
- 6.3 Pipe draw system

VII. METHODOLOGY

Firefighting system is a unique personal rescue device which uses an individual harness to help a user safely escape from an emergency situation in a multi-story building. As such, there are certain personal considerations that must be taken into account before a Firefighting system device is issued. Factors can include the user's height, weight, and physical infirmity among other issues. Prior to the fulfillment of any Firefighting system order, purchasers are required to complete a brief customer information form so that the suitability of the Firefighting system device can be determined. In the event that a device is developed that is potentially suitable for a previously declined individual, they will be contacted and informed of the new device. If more security is required than an additional option that comes is the handle which are going to get stick on the side wall of the building. This would can help the people who have a phobia of height. Again this is an option arrangement and is only place only when requested by the building or the individual.

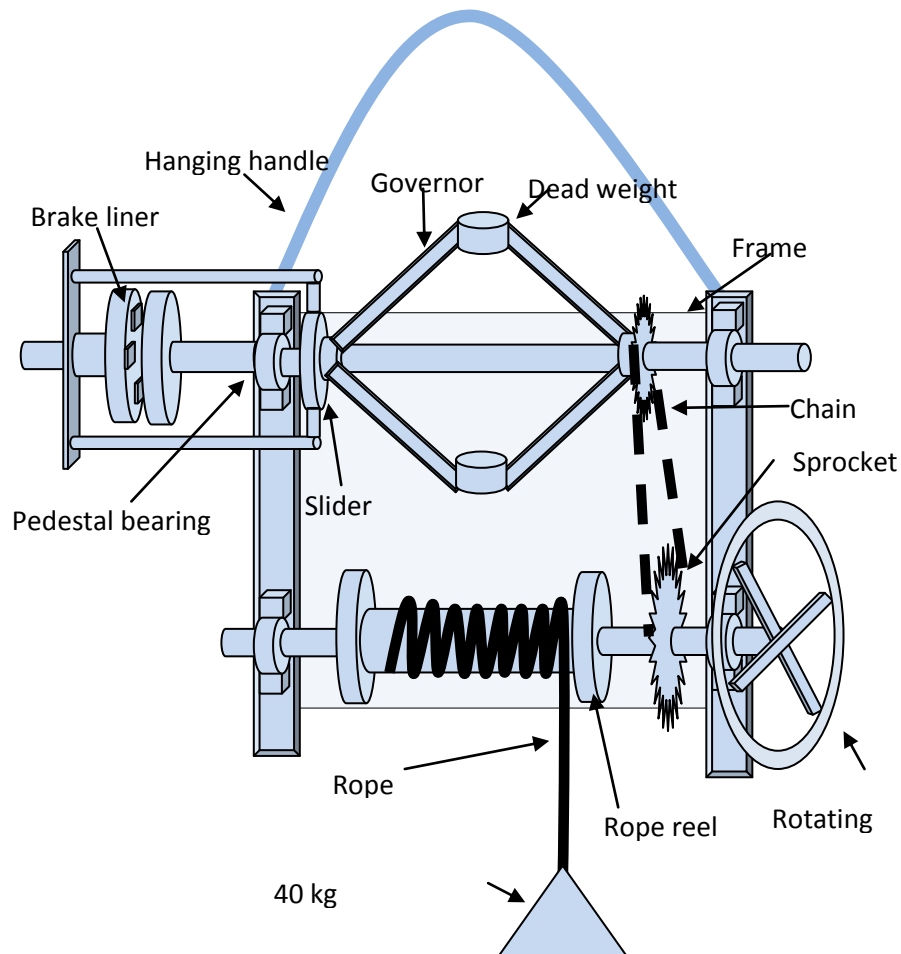


FIG 1: The Main System

TABLE 1
COMPONENTS WITH ITS MATERIAL.

Component	Material
Rope	Mild steel
Hook	Mild steel
Shaft dia 20mm	Mild steel
Chain	STD
Sprocket	Mild steel
Sprocket free wheel	Mild steel
Brake linear	Leather
Pedestal bearing	Cast iron
MS plate 5mm	Mild steel
Nut Bolt washer	Mild steel
Pipe	Mild steel
Stud	Mild steel
Handle	Mild steel
Color	STD
Miscellaneous	Mild steel

Benefits:

- a. For personal use
- b. No advance training required
- c. Product works mechanically without the need for any outside power

VIII. CONCLUSION

The weight putted on the system goes at moderate speed of 2m/s which will not harm the person hanging on it and also take them down quickly. One single machine can save a large of lives in the case of emergency. It is a hanging machine which contain a harness and a fire resistant steel cable. In the event of an emergency, connect the whole to a pre-installed point and the unique braking mechanism will enable a safe descent.

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