



Sky Saver

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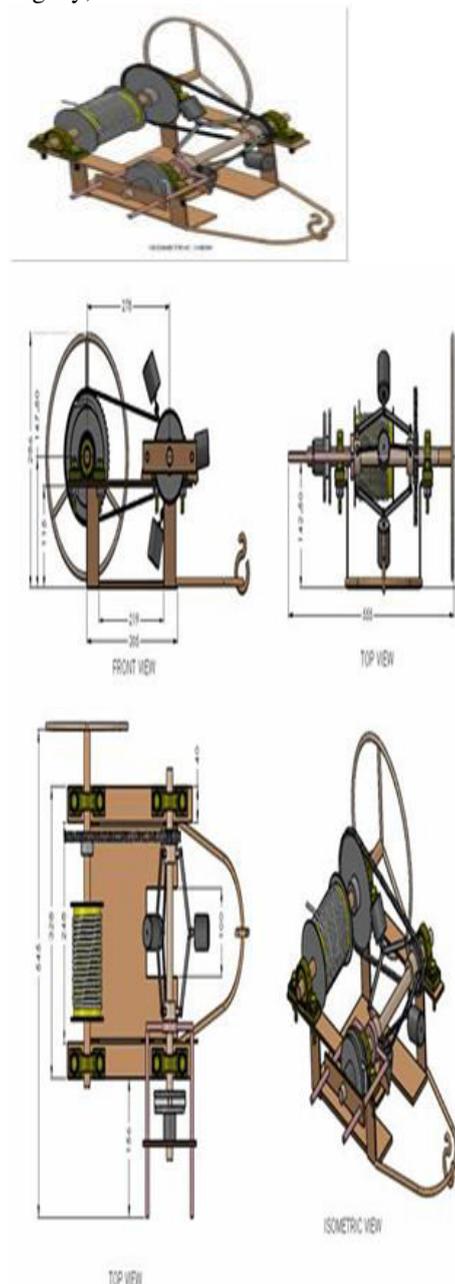
Abstract:

Do you live or work in a multi-story building? If the answer is yes, do you have a plan in place to help you evacuate the premises quickly and safely in case of a fire or other emergency? When crises happen suddenly, it's not always easy to stay focused, think clearly and keep your cool. You want to be prepared. SkySaver is a life-saving, personal self-rescue device, worn like a backpack. It is lightweight, self-contained and easy to use. Simply strap it on, attach the fire-resistant cable to a secure anchor point, and you can safely lower yourself down the side of the structure. SkySaver is effective for use in buildings up to 260 feet (80 meters). When the situation is serious, and there's little time to react, SkySaver is the ultimate piece of survival gear for multi-story occupants.

I. INTRODUCTION

Fires can cause devastating harm to property and even death to many people. The risk of being injured in a fire or becoming a fire casualty is higher for people with mental, physical and sensory disabilities. The excellent news is that deaths by fires are preventable provided that the person is educated on how to escape from a fire and equipped with devices like a fire alarm and a SkySaver. 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. Your suggestions on needs and fire safety should be heard. It's important that you make certain you're a component of the process and talk. You should talk with your neighbors and building manager regarding escape plans and practice fire drills, especially if you are living alone. Always have a phone close to your bed and save the emergency number for your local fire department. Individuals with disabilities need to be well informed on fire warning apparatuses like fire alarms and smoke detectors. Smoke alarms with the vibrating pad or the flashing light can be obtained for the deaf. You may also request the construction manager to install smoke alarms on every level of your apartment. Make sure that they're tested monthly and functioning correctly. Limitations like diminished mobility, sight, and hearing can prevent an individual from making the quick reaction needed to escape from a fire outbreak. Compare it to someone who has valuables in their home. The security alarm is their smoke detector, warning them of something bad happening. The safe is their fire extinguisher, a good precaution in case the first line of defense is circumvented. The insurance on the valuables is the SkySaver, paying you back the value in case they are stolen. In the case of the fire, YOU are the valuables, and your life is being saved, ie the payout. Fires break out in apartments so often that unless you're watching local news, you are unlikely to hear about any of them. Here are just but

a few instances (that you probably didn't even hear about) in which people were forced to jump for their lives, some ending in tragedy;



Process Description

SkySaver is a device in the form of a backpack which contains an integrated harness and a fire-resistant steel cable. In the event of an emergency, connect the cable to a pre-installed anchor point and the unique braking mechanism will enable a safe descent.

II. OBJECTIVE

Identify and design an autonomous robot that will assist people at home who are too busy for daily or weekly floor cleaning, especially for family's with children. In particular for the elderly who live by themselves and do not have the strength or ability to clean. Robotic vacuum cleaners in the market are expensive and inefficient in terms of cleaning time and cleanliness. The goal is to design an omni directional platform with infrared sensors, wireless sensors, bumpers, ultrasound, reshape, and four bristle brushes on every side to improve the cited cleaning performance problems.

III. CUSTOMER NEEDS

You might think that SkySaver's only use is to escape a fire when there is no other way out. Fire safety is the focal point of our promotional video, as well as many of our blog posts (How to Create an Action Emergency Plan, Rollovers, Flashovers, and Backdrafts, Inflammable or Flammable, How Hot Can Fire Get?). This is due to fires being a relatively common occurrence. There were nearly 1.3 million fires responded to by US fire departments in 2014. Many people have either experienced a fire breaking out in their home or know someone who has. However, there are other situations in which a SkySaver can save your life; during an earthquake, during work related violence/active shooter situation, or during a terrorist attack. None of these are as common as fire, but it's essential to know that SkySaver can be used to save your life during a variety of different emergencies. The National Earthquake Information Center (NEIC) estimates that 50 earthquakes happen per day, or about 20,000 per year. Most of them go undetected because of the minimal magnitude or lack of population in those areas. According to the NEIC, between 1900 and 2014 there were about 120 earthquakes in which 1,000 or more people were killed. During an earthquake, entrance and exit areas can easily be blocked by falling debris and elevators automatically shutdown. Your only way out might be the window. You might have read that if you are indoors during an earthquake, your best bet would be to stay where you are and duck for cover. You might have read that you should hide under a desk. This would be true, assuming you don't have a SkySaver. You would run the risk of falling debris knocking you out cold as you're trying to navigate your way to the exit. There is a risk when you stay put, however, of the building collapsing, especially if it was built before stricter regulations which were implemented in 1975. If you have a SkySaver, all you need to do is grab it, strap in, and within a couple of minutes you'll be on the ground. After you reach the ground, unhook and run away from the building as quickly as possible. Work-related violence happens a lot more often than you might think. FIFTEEN percent of all occupational fatalities are the result of assault and violent acts in the workplace. If a disgruntled worker shows up to your office carrying a weapon, your only way out might be the window. In a situation where an active shooter is in your building, and you have no idea whether or not he is standing in the hallway, SkySaver might be your only way out. Would you take the chance of sitting around, waiting for the shooter to reach you? Would you try to navigate your way to the building's exit, where he might be waiting? Or,

would you grab your SkySaver and drop down to safety in order to get help? In these situations, it's better safe than sorry. When you hear gunshots and people screaming, you might not have any way to protect yourself. Your safest bet in this situation is SkySaver. During the past couple of years, terror has been on the rise. With many terror groups throughout the world, such as ISIS, Boko Haram, Al Qaeda, and more, as well as terrorists unlinked to specific groups, who are just trying to further their own agenda, you never know when an attack might happen. You might just start to hear gunshots in your building, and before you know it, all the exits are blocked and you are a hostage. Just as with a disgruntled employee or an active shooter, if terrorists enter your home or workplace, SkySaver is probably your only safe exit. There's no sense in risking your life by searching around for a way out that might have been left unguarded. It's too risky. All you need to do is stay calm, strap on your SkySaver, and lower yourself to safety. There is a reason they are called SkySaver Rescue Backpacks and not SkySaver Fire Safety and Backpacks (or something like that). That's because SkySaver's can be used for self-rescue in various life-threatening emergency situations when there is only one way out. SkySaver is the only device that allows you to safely take that exit.

IV. CONCLUSIONS

The weight put on sky saver machine goes at a moderate speed of 1 m/s which will not harm the person hanging on it and also take him down quickly. One single machine can save multiple lives in case of emergency. SkySaver is a hanging machine which contains an integrated harness and a fire-resistant steel cable. In the event of an emergency, connect the whole to a pre-installed anchor point and the unique braking mechanism will enable a safe descent. One single machine can save multiple lives

V. REFERENCES

To complete the project report the use of various book is important. The following

BOOKNAME	AUTHOR
Machine Design	R.S.Khurmi
Work Shop Technology	S.K.Hajra,Chaudhary

VI. BIOGRAPHIES

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