



## Draft SafeAssignment 04

Venkata Bejjam on Sat, Dec 02 2017, 10:16 AM

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Running head: 1 **RADIO FREQUENCY IDENTIFICATION SYSTEM**

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# **1 RADIO FREQUENCY IDENTIFICATION SYSTEM**

Name

## **1 INSTITUTION RADIO FREQUENCY IDENTIFICATION SYSTEM**

**2 INTRODUCTION RFID IS THE RADIO FREQUENCY IDENTIFICATION SYSTEM.** **3 THE RADIO FREQUENCY IDENTIFICATION USES ELECTROMAGNETIC FIELDS TO IDENTIFY AUTOMATICALLY AND ALSO TO TRACK TAGS ATTACHED TO OBJECTS. THE TAGS CONTAIN INFORMATION THAT IS ELECTRONICALLY STORED IN THEM.** **4 THERE ARE TWO TYPES OF TAGS, PASSIVE TAGS AND ACTIVE TAGS.** Active tags work in such a way that they collect energy from a nearby radio frequency identification readers through interrogating radio waves. **5 ACTIVE TAGS ON THE OTHER HAND, HAVE A LOCAL POWER SOURCE AND CAN OPERATE HUNDREDS OF METERS FROM RADIO-FREQUENCY IDENTIFICATION READER.**

**6 THE TAG CANNOT BE WITHIN THE LINE OF SIGHT OF THE READER FOR IT TO BE EMBEDDED IN THE TRACKED OBJECT.** **7 THE RADIO-FREQUENCY IDENTIFICATION IS ANOTHER METHOD FOR AUTOMATIC IDENTIFICATION AND DATA CAPTURE.** **3 RADIO FREQUENCY IDENTIFICATION TAGS ARE USED IN MANY INDUSTRIES LIKE THOSE ATTACHED TO AN AUTOMOBILE THAT DURING PRODUCTION CAN BE USED TO TRACK ITS PROGRESS THROUGH THE ASSEMBLY LINE.** The radio-frequency identification microchip can be implanted in livestock and pets for positive identification of animals.

The radio-frequency identification tags have brought about serious privacy concerns since they can be attached to cash, clothes and many other possession unnoticed. **8 THESE CONCERNS RESULTED IN THE FORMATION OF SPECIFICATION DEVELOPMENT ADDRESSING PRIVACY AND SECURITY ISSUES.** Tags can also be used in shops to expedite checkout and also prevent theft by customers and

employees in the work place. Radio-frequency identification is used for electronic toll collection in California.

The radio-frequency identification system can be used in a production industry to regulate theft from customers and the employees themselves. The technology that can be defined to be similar as the radio frequency identification system is the IFF transponder. This transponders are still used today by most powered aircraft for their efficiency. Like in a production industry there is a lot of insecurity and that's why radio frequency identification system is mostly advised.

The company ought to put up the radio identification system and also employ the appropriate personnel responsible for the operation of the system. The company may also need additional personnel to act as guards for the company. The company should have a plan on how it will cover for the entire costs of what is required for the system to efficiently work. Then afterwards the system should be purchased by the company and correctly installed by hiring a technician who knows how to operate the system.

The company should then train their employees how to operate the system or employ personnel who are perfectly trained for operating the system. The system should be regularly maintained by also hiring a technician to check the system if it operates effectively. This will maintain the system to operate for a long period of time effectively (Lavedas, 2012). The systems purpose is that it has eased the work done by guards, tighten security and also help the company to cut down on additional costs that will be put up to hire more personnel.

**1 THE RADIO FREQUENCY IDENTIFICATION SYSTEM CURBS THE INCREASING RATE OF THEFT.** Everyone seems to be after something that does not belong to them as long as they benefit from it. The radio frequency system is like the walkie talkie that was basically used by security officers and the military. Telephone is the advanced radio frequency identification system for it has eased communication for even longer distances. **9 THE RADIO FREQUENCY IDENTIFICATION SYSTEM HAS MANY BENEFITS AND ALSO MANY DISADVANTAGES.**

The benefits of radio frequency identification system is that it has eased work in companies for guards, it has helped to save on additional costs by reducing the personnel by the work done by the system. The disadvantages are that it leads to unemployment for personnel will be cut down due to the new system that ease work, it is also costly for it will need training personnel for its operation and also its maintenance will also be costly (Zatloukal, Engstrom, & Smith, 2012).

## Conclusion

The radio frequency identification system has helped a lot for it has eased work and also helped companies grow both technically and also its security for the technology tightens the security in the company. Radio frequency identification system should be handled with care and operated well for it to work longer and efficiently. Regular maintenance should be done and in case any part is worn out, it should be replaced to avoid any malfunctioning.

## References

Zatloukal, P., Engstrom, G. <sup>10</sup> **E., & SMITH, C.** M. (2012). U.S. Patent No. 8,127,984. Washington, DC: U.S. Patent and Trademark Office.

Lavedas, T. G. (2012). U.S. Patent No. 8,098,161. Washington, DC: U.S. Patent and Trademark Office.