IOT ASSIGNMENT 3

TITLE: STORM DETECTOR

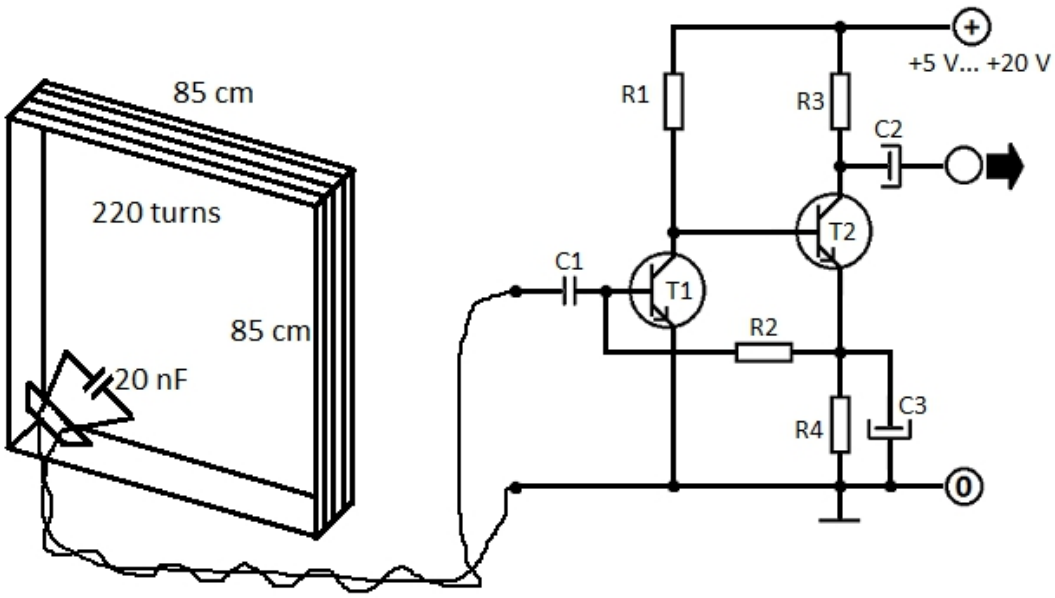
Introduction

In the midst of storms arising, lives have been lost and properties have been destroyed leaving people homeless with no hope. This raises the need to have storm detectors that will detect storms and prevent calamity from happening again.

Other related systems:

A) Lightning detector
B) Spark detector.

System Design:



Methodology:

The lightning detector system uses a radio that listens for lightning at 500 kHz, it listens for a particular radio signal pattern. The lightning signal pattern is generated by the electrical “spark”, that is the lightning itself. ... The same signal “spark” can be artificially generated by many different man-made sources.

References

https://support.acurite.com/hc/en-us/articles/360010936494-How-Does-the-Lightning-Detector-Work-#:~:text=The%20lightning%20detector%20system%20uses,that%20is%20the%20lightning%20itself.&text=The%20same%20signal%20%E2%80%9Cspark%E2%80%9D%20can,many%20different%20man%2Dmade%20sources.

https://www.google.com/url?sa=i&url=https%3A%2F%2Fwww.electroschematics.com%2Fstorm-detector-circuit%2F&psig=AOvVaw1UrncjYunKQeub8inbjB3c&ust=1640940752113000&source=images&cd=vfe&ved=0CA0Q3YkBahcKEwjQsd7mkov1AhUAAAAAHQAAAAAQAw