

LETTER TO ENGINEER

Dear Engineer

My design is to create a sensor that helps with poaching of animals. They think this was a problem because species are being killed for their physical features for example rhinos are being killed for their horns to be used in Chinese medicine.

This is how this works. Near the fields where the animals are there is a camp where there are members who look after the animals. The sensors go on them. I have made a sensor which is camouflaged colour so they blend with the uniform. There are batteries inside it that don't get spoiled so they last a long time. There is a red dot on the left-hand corner of the sensor and it detects all over the fields when poachers come. It won't detect the members of the camp as the sensor is specifically programmed to the person who is wearing it. When they are battling the poachers, the sensors won't get damaged as there are thick protective covers over the batteries.

The benefits of the design are that the species won't become extinct and will last longer. As the rhinos are starting to become extinct and more animals are closer to becoming extinct there has to be something to fix this.

My inspiration to make this design was that I am half African and my mum is from Kenya and she was used to having animals around her and her dad had 500 cows on their farm and they had dogs. Also, I went to Kenya 4 years ago and I went on the safari and the land was empty as there were not that many animals and when you go on a safari you try to spot the big 5 and we did find some but not all.

My solution is special as I am trying to save the species and prevent them from becoming extinct and I am trying to make my late grandfather proud as he was from Kenya and he had a big farm and was used to animals around him.

In my opinion I think that you should build my design as it helps poaching decrease and I was trying to help people who were trying to solve this problem and to help them make it easier to come up with a solution. Other solutions have been created but some of them have not been that accurate.

Annotated Design

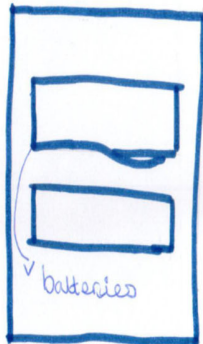
The whole cover will be thick so doesn't get damaged if they fall off.

outside of the sensor

Inside



This is the inside of the sensor that detects when poachers are coming.



box for the batteries that never run out.

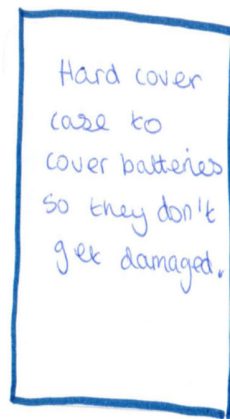
Outside



The outside of the sensor when it detects when poachers come.

It will make an sound like an alarm.

So the members of the camp know when to go out on the fields.



colour will be camouflaged so the poachers don't

The sensor can detect anywhere There is no certain distance.