Battery with copper wire

How does a battery wire work?

Our copper wire is conducting electricity from one end of the battery to the other. As it moves through the magnets on the negative side of the battery, it creates a force which causes the wire to spin. You can read more about the Lorentz force and homopolar motors here and here. Hendrik Lorentz.

How do you wire a battery with a plier?

Remove the copper wire when not in use,otherwise it may become hot and cause a fire. Use the pliers to shape the copper wire as shown. Attach the magnets to the negative terminal of the battery. Balance the copper wire on the positive terminal of the battery. Be sure the wire ends are in contact with the magnets but not with each other. Voila!

How do you wire a battery with a magnet?

Attach the magnets to the negative terminal of the battery. Balance the copper wire on the positive terminal of the battery. Be sure the wire ends are in contact with the magnets but not with each other. Voila! Watch the copper wire spin. There is a close connection between electrical and magnetic phenomena.

What happens when you connect a wire to a battery?

When you connect the wire to the battery,the electrons flow through the wire. If there is not a complete circuit,the electrons will not flow. Electrons behave like little magnets and when they flow through a wire,they create a magnetic field,which turns the nail into a magnet that can pick up paper clips and staples!

How do you attach a battery to a wire?

Steps: Create a coil: Wrap the copper wire around a battery several times to create a tight coil. Leave about 2 cm of wire on each end for connections. Attach paperclips: Bend the paperclips into a U-shape and tape them to each end of the battery. These will act as supports for your coil. Place the magnet: Position the magnet on top of the battery.

How does a copper wire move?

Here,an electric currentin the copper wire is conducted through the magnetic field around the magnets. This causes a force to arise,which pushes on the copper wire and causes it to move. You have just built a machine that can make something move with the help of an electric current - an electric motor.

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Battery with copper wire

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Insert the copper and nails: Stick a coin into one side of each potato and a galvanised nail into the other side of each potato. Connect the ...

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