let's make

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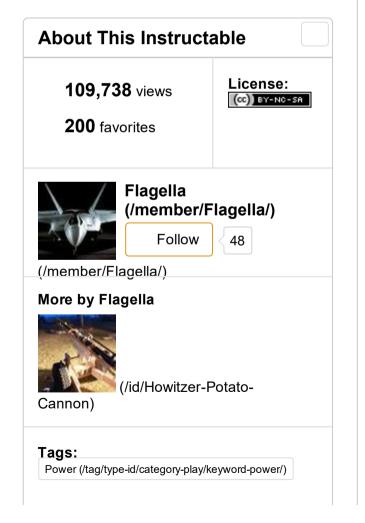
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This Instructable will show you how to create a shoe that generates electricity. It does this by using your energy when you walk and converts it into electricity. If you've ever lost power to your cell phone in the middle of nowhere, then you know how frustrating it can be. But with this shoe, you can charge an electronic device anytime, anywhere.

The concept and design are really actually simple. You get a small generator from a rechargeable flashlight, rig it up so you can turn the generator axle when you step down, and channel that energy to a cell phone's (or other device's) charger cord. You can use this when you are jogging or walking or just when you're sitting down and feel like tapping your foot.

The materials are really pretty cheap and the project is easy to make. The only thing that you will have to adjust for is that you probable won't have the same kind of shoe I have. So you might need to make some adjustments, but the concept is still the same.

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Step 1: Materials



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generators. The two is one of their generators. brand is MegaBrite. piece of re-bar, some er.

a drill, a band saw (unless

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Step 2: Hollow out the shoe



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The first step is to hollow out the shoe so you can put all the stuff in it. I did this using a utility knife and some pliers. Try not to mutilate the shoe and don't cut all the way to the edges. Leave some rubber along the edges as shown for structural integrity.

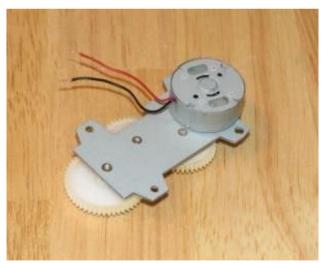
Next, drill a hole in the back or side of the shoe. This is where your charger cord will go in and connect to the generators.

Step 3: D



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Next, dissect you flashlights and get the generators out. Keep them connected to their gear assemblies because these will be used as well. Also, keep all the

screws from the flashlight because you might be able to use them later.

Step 4: Front Assembly



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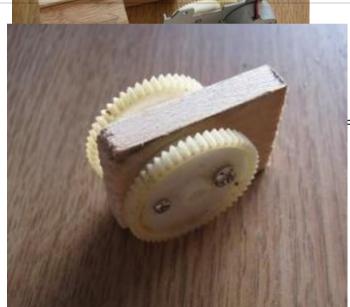
This front connect to 2-3" long wood as s block, as



s and the whole thing will es of wood. Make them about nerator sets to the pieces of two pieces on to a center

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Step 5: Co



FTK8A4S7.LARGE.jpg)

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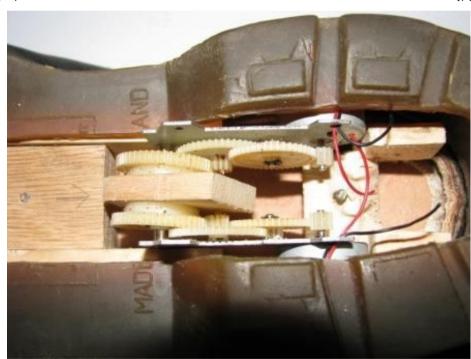


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Step 6: The Back Block



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The back block will be used to hold the other side of the generator assemblies and to hold the spring. Mine looks sort of rough, but it worked pretty well. You can easily make this piece on a band saw and fashion it out so it will fit the shoe you are working with.

The front part will connect with the generator assemblies and the two tower-like appendages are for holding the spring.

Its not shown in the picture, but you will need to drill a hole in each tower so a wire will be able to pass through.

Step 7: The Spring



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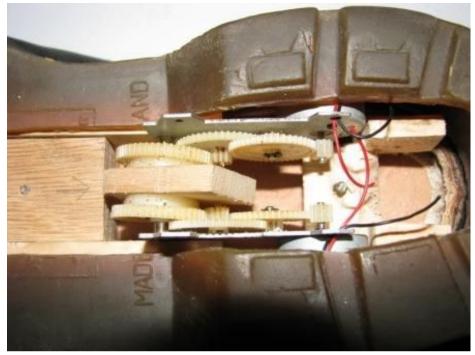
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The spring is used to push the lever back to the starting position after it has been depressed.

I started by cutting a small piece of re-bar and putting a hole in it. This will go in between the two towers of the back block and the wire will go through the hole. Then, I got a small spring and slid it over the re-bar.

Now the whole thing is ready to together and in the shoe.

Step 8: Putting it all together



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Now we have to put it all together. First, connect the back block to the front assembly. Then, slide the whole thing into the shoe and screw it into the sole.

Next, cut t Pass the c to the gene tape.

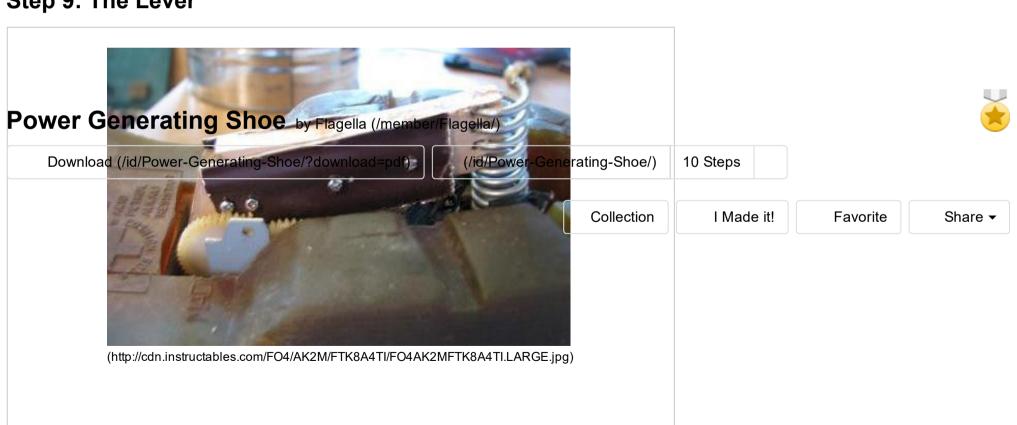
Now for the in the towe assembly. All that is I

narger and split and strip the ends. shoe and connect the charger wires cposed part of the wires in electrical

le of the shoe, about where the holes n the shoe, back block, and spring to about 1" and just fold it over. the lever.

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Step 9: The Lever

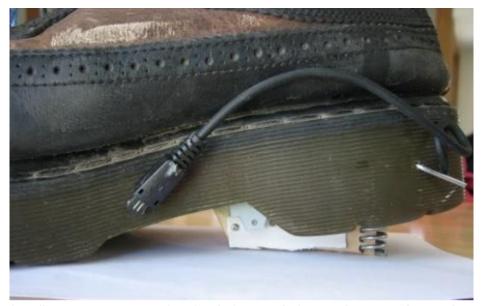




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Now you connect the lever which is the part which you actually step down on. I drilled a series of hole in one side of a skinny piece of wood, then threaded it onto the spring. Then I connected it to the axle wood with some strips of gutter pipe and some screws. It doesn't look too fancy, but it is actually pretty sturdy.

Step 10: Fininishing Touches/ Conclusion



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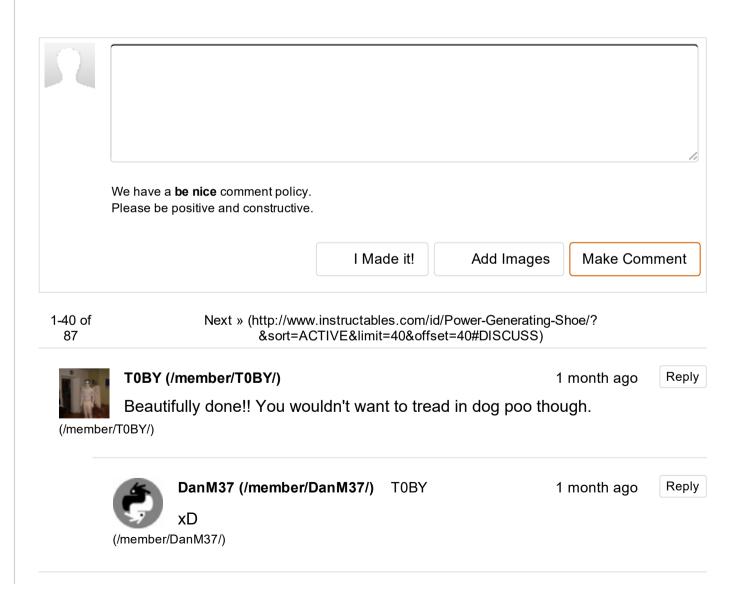


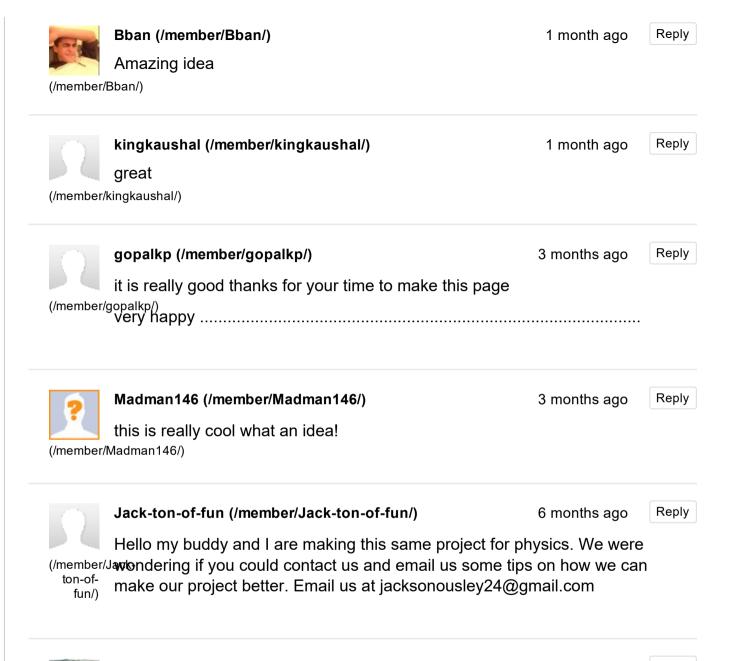
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Now you're finally done. You can add some finishing touches by filling in the extra spaces with clear silicone, smoothing any edges, and giving your shoe a

good shine!

Just in case you're in doubt, the shoe really does create electricity. Even though it doesn't look very fancy, I think its pretty cool that you have an independent and green power source wherever you go. All you have to do is walk. Again, you will probably have to make adjustments for you model because I doubt your shoe will be like mine, but it should be basically the same. Good luck with your project and thanks for reading my Instructable.





amansinghaljpr (/member/amansinghaljpr/)

8 months ago

Reply

cool dude !!! contact me on skype my skype name..amansinghal1999 (/member/amansinghaljpr/)

11 months ago

Reply

very nice, bro.

(/member/richipitchi/) had the same idea yesterday.

it is useful to google your ideas at first, so you can spare time and work. nice ;D

you could also integrate leds in the shoe :)

MakerHackerBuilder (/member/MakerHackerBuilder/)

11 months ago

Reply

This is a creative start. Each step will create a burst of
(/member/MekærtgykeThatterdeds to be filtered and passed along to a battery. You would later charge some device from that battery. Good luck. Question Everything...Stay Curious...

om.patel.334491 (/member/om.patel.334491/)

1 year ago

Reply

You are genius But what is the amt of electricity generated in one step (/member/om.patel.334491/)

zishanali (/member/zishanali/)

1 year ago

Reply

i buy your project..

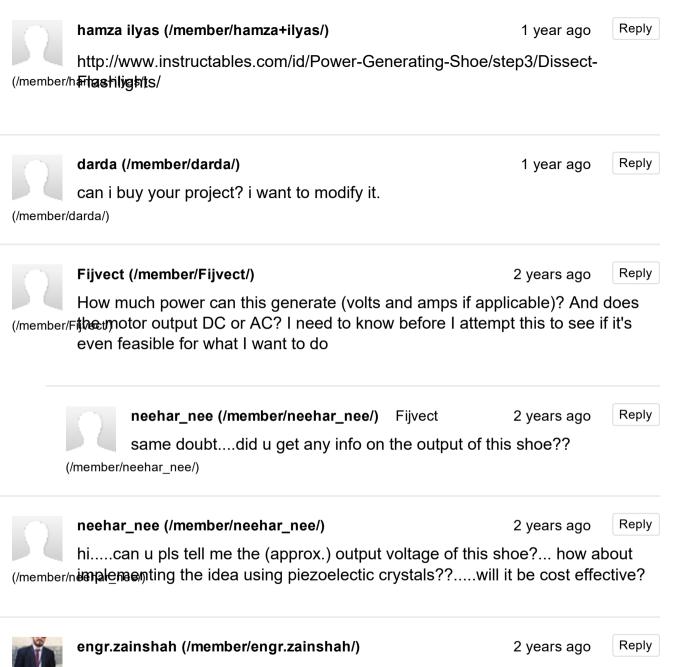
(/member/zishanali/)

hamza ilyas (/member/hamza+ilyas/)

1 year ago

Reply

http://www.instructables.com/id/Power-Generating-Shoe/step3/Dissect-



Can I have this Project I cant Make it I tried It many ways

(/member/elligrations/ble i can buy it

Reply jonnyd55 (/member/jonnyd55/) 3 years ago Imagine doing an irish dance in these! you'd get lighting bolts coming out your (/member/josh@ss!):) crockman1 (/member/crockman1/) jonnyd55 2 years ago Reply bahahahahah yes (/member/crockman1/) tinker234 (/member/tinker234/) 3 years ago Reply so if i had to use this how much would i genrate (/member/tinker234/) ANDY! (/member/ANDY%21/) 3 years ago Reply Real cool! (/member/ANDY%21/) olavxxx (/member/olavxxx/) 6 years ago Reply lol, I have always been thinking about a shoe with a fan inside.. you know (/member/ofthose hot days, you really need a small pc fan inside the shoe :-) mutput7 (/member/mutput7/) olavxxx 4 years ago Reply "Ohh, I'm so hot..." (/member/mttakes off shoe, points sole at face* "Ahhhhh"

(Other person)

nutsandbolts_64 (/member/nutsandbolts_64/) mutput7

4 years ago

Reply

That would be bad because, well, you're pointing (/member/nataadonsi_llead) shoe to your face (unless you used a foot deodorant or something, you're in bad luck).

jimmytvf (/member/jimmytvf/) nutsandbolts 64

3 years ago

Reply

if the problem is the odor, try to put a fan above the shoe, will take all (/member/jiithe/tagd air from your foot ^^

dfedde (/member/dfedde/) olavxxx

4 years ago

Reply

why bother converting it to electrical energy then just make a (/member/damachanical fan

Dipanjana (/member/Dipanjana/)
ohh wow !!! this is awesome

4 years ago

Reply

(/member/Dipanjana/)

Roxas1313 (/member/Roxas1313/)

5 years ago

Reply

hey,2 questions,when you mean rechargeable,do you mean the crank (/member/Rgeaerator?because the picture you have is a hand cranked generator and 2 flashlights.And 2nd,what about the spring,where did you get that and what's its exact name?

survivorwolf (/member/survivorwolf/) Roxas1313 4 years ago Reply

For the wire question: You can make it as long as you desire but i (/member/surecommend using a plug that you place wire from the device to the

object being charged

rbond1 (/member/rbond1/)

4 years ago

Reply

Heyy, I was wondering how you actually get the gears to spin, seeing as they (/member/rthaeed) to be cranked by a handle to get them to turn. Thanks!

soona1991 (/member/soona1991/)

5 years ago

Reply

hi buddy nice work...

(/member/state) me one thing when we step on it suppose the gen runs in clockwise direction.. but when we remove the gen will move in opp direction... how to tackle that...

post your ans on rohan.yadav1991@gmail.com

The motor only turns in one direction, when you (/member/testepudiowns: When you step up the motor doesn't move. This is done using a ratchet wheel.

soona1991 4 years ago

Reply

Phrozexiah (/member/Phrozexiah/)

4 years ago

Reply

i tried doing the same concept but instead of doing it like this, i used wheels so (/member/Pthatethae/flow of the current is continuous as the user skates. unlike this one that uses stepping that would only make the generator turn back and forth...:)) and i am proud to say it is successful...XD

gunman15 (/member/gunman15/)

what if you hear air escapeing



4 years ago

Reply

Reply

Nadsautin (/member/Nadsautin/)

4 years ago

has anyone tried it before ???

(/member/Nadsautin/)

I and my team wants to imply this as our final term project... please help

L9OBL (/member/L9OBL/)

5 years ago

Reply

you use dynamo flashlights. you could also do it with those shake flashlights (/member/Lstb2/)

Delaney (/member/Delaney/)

5 years ago

Reply

I'm not sure if anyone mentioned this, but I would not attempt to go through an (/member/Daikpay/t while wearing those

The

fearme36 (/member/fearme36/) Delaney

5 years ago

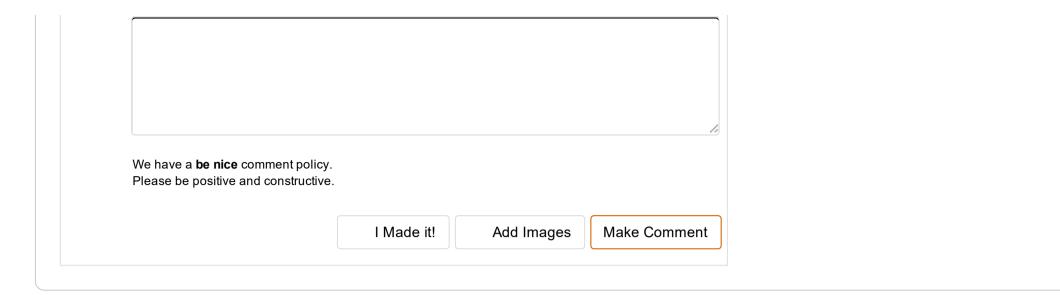
Reply

Rofl!

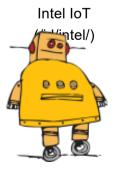
(/member/fearme36/)

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