

Home Made - Lightweight Backpack Stove

Invented by: Unknown.

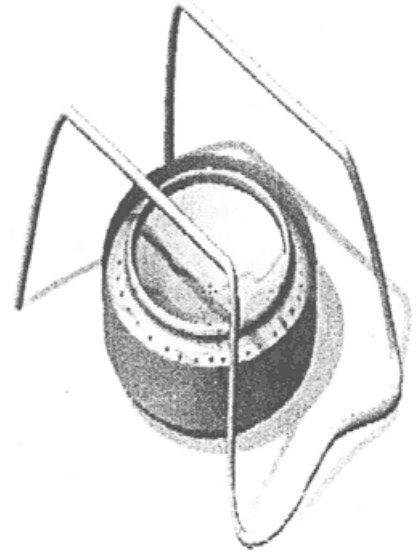
Construction directions by: LaMar Kirby - Utah Lake District Orem Ut.

You can make this simple back backing stove with little cost. This makes a great scout troop activity.

What you'll need

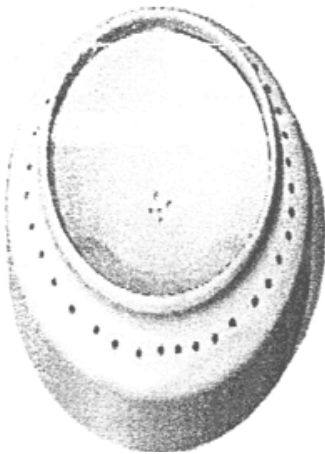
Parts List

- ? 2 Aluminum Drink Cans
- ? 1/4 Perlite (found in the gardening department) -\$5 gets you a bag to do more than 40 Stoves
- ? Wire Coat Hanger
- ? Methylated Spirits (De-Natured alcohol) (found in the Supermarket or paint Shop)
- ? Square of flat timber 150mm x 150mm (Optional but makes for easier assembly)



Tools

- ? Scissors
- ? Drill
- ? 1/16" (2 mm) Drill Bit (An alternative is a short piece of thick dowel say 15 – 20 mm thick and 150mm long with a panel pin nail in the end with the head cut off)
- ? Wire Cutters

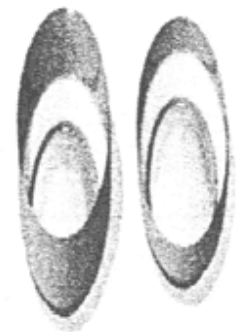


Step 1

For the base, neatly cut one can about 3.5cm (1 1/2") from the bottom. For the top, cut the other can about 2.5cm (1") from the bottom.

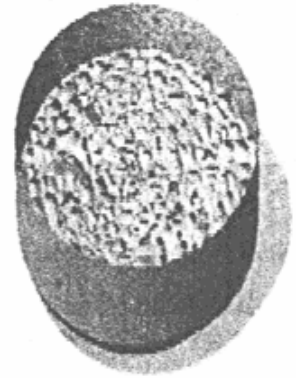
Step 2

Drill (or punch)a number of holes (18-30) around the edge of the top and in the center as shown; use a 1/16" drill bit (or your nail in dowel punch).



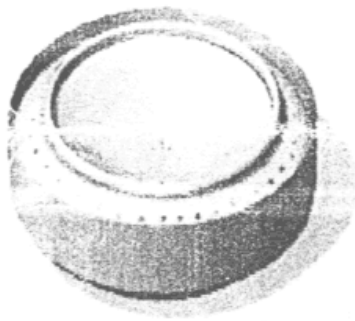
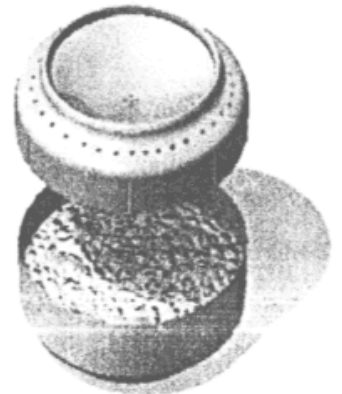
Step 3

Fill the base with Perlite, just more than half full.



Step 4

Make 6-8 vertical cuts around the top. Make the cuts up to the but not over the rounded edge. Slowly press the top into the bottom (A small board can help make it even.)

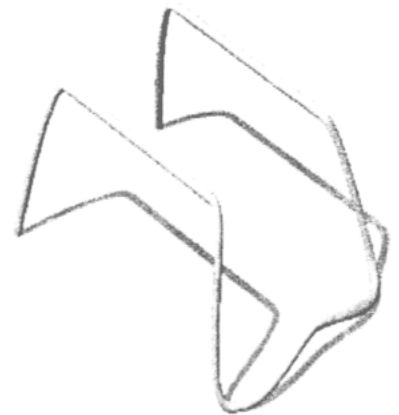


Step 5

Fill the stove about half full of metho. Light the burner by slowly moving a match or lighter over the edge of the burner. Note: If it does not stay lit, tip the burner up to leak some fuel into the rim and relight. Hold it until it stays lit or gets too hot.

Step 6

Cut and straighten a coat hanger. Use a fine sandpaper to remove any paint or coatings. Bend the coat hanger wire (or any large gauge wire) into a shape that will hold a pot a few inches above the burner (see the example). Note: with a little imaginations you can create a number of stove bases



That's It

If you have any experiences that will improve this design please let me know.



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