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75 c the suit

 Mod By


TOU CAN EARN $\$ 50.00$ PER DAY




Making Electric Teiephone at Home

WAT would we do without the teie- set that will give you mnch fon and in-
phone? Think of all the time and struction. Any boy can matie the outfit troubie this wonderful Invelition saves us every day. In the office and the home, for business and pleasure, the tele-
phone Is surely a useful and uecessary phone is sit
instrument.
But in spite of all its wonders a simple telephone is an easy thing for a boy to construet. I'll tell sou how you can make one for less than 50 cents and with
very few tools. very few tools. to hold 12 cigars A such as are nsed to hold 12 cigars. A bex about four

faches square and one inch deep is Just for 12 c a dozen. Read the directions for right. Cut a round hole in the center of handling, which accompanies each pac the botton about tho inclies in dlameter. age, before attempting to use the paper. Now get a pitce of very thin tin and ent box tightly so that no plight, can enter, it fato a circle two and one-half inches around. A small pleee of carbon about one eighth inch thick and one-half inch equare should be fastened firmly to the
center of this circle of tin, as shown in center of this circle of tin, as shown in cut notches in the sides of the carbo cut notches in the sides of the carbon.
With a nail drive four holes in the center of the tin circle and tie the carbon piece of the tin circle and tie the carbon piece
to the tin by drawing bare copper wire through these holes. The carbon must move. round hole in the cigar box with the car bon on the inside. Nse very small brads for this parpose. Now bend a strip of
tin one-half inch wide and tfree inches long, as shown in figure 2 .
Wifh a kuife cut a tiny wedge-shaped piece of carbon with a slarp point, as
shown in figure 3. Bind this plece wich shown in figure 3. Bind this plece with
copper wire to the end of tin strip. Figcopper wire to the end of tin strip. Fig-
ure 4 will show you bow this is done. Nall the bottom of the tin strip to one of the sides of the cigar box so that the point
of carbon presses very lightly against the of carbon presses very lightly against the
carbon plate on the tin circle. Ses fig-
Two holes should now be drilled in the top side of the cligar box. In each of
these holes should be fastened a brass binding post to counect our telephone
wires. wires. A binding post is simply a nut or the wires.) Solder a copper whe to the circle of tin and fasten the other eud to one bindligg post. Solder another wire
to the strip of tin aud connect this to the to the strip of in aud connect this to the
other post. Our "transmitter" is now complete. cifer" than it is to make onee, Most
electrical stores or exnerimenter's shops electrical stores or exnerimenter's shops
have inexpensive ones for 45 cents. Figure 6 shows one. Parchase one of these
and your telephone is complete. Figure 7 shows how it is connected with a battery and line wire for talking. This tele-
phone should work several hundred feet phone should work several hundred feet
on oue dry cell or door-bell battery. The pointed carbon must beat rery iightly
against the tiny carbon plate. When some against the tiny carbon plate. When some one tallss into the plate anyone at the
other end can hear what he is saying very plainly.
transmitter will cost hittle or nothine The carbon may be cut from an old arc light carbon or from the carbon stick removed from an old dry cell. The th used must be tin telephone "diaphragm," already cut in a crecte, may be purchased for 5
or 10 cents. This is the best tin to use or 10 cents. This is the best tin to use
for the circle. Very thin brass, if you have some, not over .01 of an inch thick,
will do inkead of tin. Bo careful not to bend the circle in any way when workIng with it. If all these drections are
carefully followed you will have a dandy
struedion.
is an hour.
$A \mathrm{C}$
Cigar Bax Came
Pictures can readily be taken by an one with a
of any kid.
Select a d
Select a deep, well-made box, as nearly cubical in shape as possible. in one end drill a tiny hole
inch in diameter
Inside the box, on the end opposite the hole, earefully pin, by each corner, a sheet of "gas light" photo paper, which

ORAL HYGIENE
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and mouth put in the proper condition

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dentis and still leave krent demand
for iniays, porcelain filings, bridee Your dental needs shoild hare finst
attention, simee health appearance and

J. E. Stevenson, D.D.S.

## 960-Acre

WHEAT RANCH stand for other object and allow it to stand for two or three bows, thus "e
posing" the paper Now "develop" and "fla" the paper The picture will appear inverted, that is the light parts will be dank and the dark
parts light. When the "negative" has dried pin it over another sheet of photo paper and expose to daylight for five minutes. De-
velop and fix as before and you will have a fair picture of your object. Directions given with each paciage trbe of developer costing 5 cents and a pound of "hypo" costing 3 cents, is all that is needed in the way of chemicals.
Use old dishes in which to do the dereloping.

Odd Inventions of the War. In one of the trenches, close to the two trap doors which can be pened closed be means of a mechantcal devie from a place of sately when an attack at night is feared. The outer door consisis of burbed wire netting, which they a few yards further, and the inner door three layers of armored steel plates with loop holes. If the attacking soldiers get between these rwo trap doors they are cornered; escape is innposstble.
In one of the Vosges valleys the Ger500 yards long, capable of convey raing sua plies for several thousand men. The rail way leads from the bottom of a mountain
to the top, about 400 ards above the valles. A car takes 10 to 15 minutes from the bottom to the ton and tice rersa,
Even the wounded men are transported on this ingenious line.

Free Poland-China History The Standard Poland-China Record Association has Just issued a $\$ 2$-page
booklet enitled "A Pedigree Mantal" and a "Short Story of the Early History of Poland-chinas." Numerous requests have been received from breeders, students and instructors in agricultural col-
leges, farm demonstrators and instractors in public schools, for a condensen liistory of the Poland-China breed. This booklet has been prepared to meot these requests The Poland-Chinas are strletly an
American breed and this booklet deal American breed and this booklet deal
with not only their origin and early tory, but what Poland-Chinas are doing
today today. Instruction for the writing of pedigrees gistug in detafl how to write a pedf-
gree, is one of the main features of this gree, is one of the main features of th
booklet. Copies of this booklet wlll be sent fred
upon application to the Standard PolandChima Record Association, Ray
Secretary, Maryville, Missouri.

