The key to this method of installing a trap in the tree canopy is the Hastings Nor Conductive Fiberglass Telescoping Measuring Rod. The rod is not used to raise the trap. Rather the rod is used to raise a hook and rope by which the trap is later raised. The CMMCP uses the 35' model. This length enables the trapper to reach and hook onto tree branches above 25 feet.





The two steel rods used to make the hook and lifting ring.

When red hot the rod is quickly wra

around an appropriate sized object

Hastings Non-Conductive Fiberglass

ping Measuring Rod

Teles

during installation and retrieval

The book mentioned above is home-The hook mentioned above is home-made from round, plain, steel rod. Th rod measures 3/16ths inch wide by 16 inches long. In the following series of photographs a hook is formed from the Th A second smaller rod is used to form a lifting ring. A second series of photographs depicts that process.



The 3/16ths inch wide by 16 inch long ro is heated with a gas torch to red hot



The mouth of the hook should be 5 A Leco ULV sprayer muffler measuring s inches across and clamped into a vise serves the purpose. nches wide and the shank 8 in In this photo the two areas of the hook are demarcated by the pliers.





hes long



The end of the shank must be bent back on itself so that the gap is completely closed. The eye should be in line with the mouth of the hook.

INSTALLING MOSQUITO TRAPS



The telescoping pole is held upright directly under the targeted tree branch. The hook is hung from the coat hook basket by the lifting ring. The rope is coiled aside.

The pole is put aside. The split key ring tied into the rope

ends is found. One length of the rope is tied off to the tree trunk. The cradled battery is hung from the split key

ring by the swivel eye - bolt snap hook



The pole is extended hand over hand thereby raising the hook. Each section of the pole is button locked into place as it is extended.

A trap which has had a split key ring and swivel eye -bolt snap hook added to the lid, is attached to the

cradles' lower split key ring by its' snap hook.



The hook is positioned above the targeted branch. Then the nole is retracted section by section. The hook drops into place over the branch as the basket lowers.



The traps' power cord is connected to the battery terminals. A catch container is attached to the trap. Tubing cut to the appropriate length \underline{ex} . 33' and 3" is attached to the trap and a CO2 tank on the ground.



in the **TREE CANOPY :THE METHOD and MATERIALS NEEDED**

The following series of photographs ows the manufacture of a lifting ring. The lifting ring is formed from the second round, plain steel rod. The rod measures 1/8 inch wide by 12 inches long The middle of the rod is heated with a torch until red hot. Then the rod is torch until red hot. Then the rod is wrapped around an appropriate sized object. In this case a 3 inch diameter wrench socket clamped in a vise.



In turn each segment of the rod at cross is heated until red hot.



The finished lifting ring is 3 inches in diameter and has two 1- inch long tabs.

While red hot the segment is bent to a right angle with a pliers

The photograph below shows the book and lifting ring fully formed. The next step is to weld the two pieces together. The weld is made where the two tabs of the lifting ring align with he shank of the hook.



The ring is perpendicular to the shank of the hook.



A 1.5 inch split key ring is put through the eye of the hook as well as a 1.25 inch swivel eye pulley. A ¼ inch rope is run through the pulley throat. The ends of the rope are tied together around a 1.5 inch split key ring.

Mosquito traps suitable for suspension in the tree canopy are usuall powered by a 6V battery. Because such traps have a short length of power cord battery needs to be in close pro to the trap. battery cradle which holds the battery near the suspended trap is manufactured in the following series of photographs.



Modify two framing plates by rounding their corners and drilling out the corner center top and center bottom nail holes.





Then bolt the plates together with four 2.5 inch round head stove bolts. 1.5 inch split key ring is run through the center nail hole of one plate and a swivel eye-bolt type snap hook

A second 1.5 inch split key ring is run hrough the bottom center nail hole on the opposite tie plate 6V rech able battery is secured withi A 6V rechargeable battery is secure the cradle by tightening the 4 bolts