AMATEUR PHOTOGRAPHY.

BY SHARLOT M. HALL.-No. 2.-LEARNING TO USE THE CAMERA.

Each style of camera—as the "Premo," "Normandié," "Marlboro" and others-has distinguishing features of its the John and an accompanying bookiet in each case describes plantly the working of the various parts. Study this booklet until you know every spring and hinge in the instrument, can and each one in the dark and can open and close all parts withand each one in the dark and can open and close all parts withoff our bungling. This is very important, because some of the most
deficient work must be done in as little light as possible. Having learned its mechanical working, take the camera and an
term of the camera and an analysis of the camera and an analysis of the camera and taking a picture at least a dozen times before you
weature to put a plate in the instrument. This is not very exciting, to be sure, but it will greatly reduce the percentage of famores that bestrew the amateur's pathway, two-thirds of Market winch are due to haste and impatience of instruction. The camera is an instrument of such mathment of such mathment of such mathment of such materials are for use with it are citing, to be sure, but it will greatly reduce the percentage of

for use with it are o carefully pre-pared that failure is amost impossible, f the worker is reasonably patient and painstaking.

PLACING THE CAMERA.

We will suppose hat one begins ith a tripod camra and, of course, as learned to atach the tripod beore coming outloors. Choose what ou think would be good view and set the camera with he lens pointing oward it. Spread he legs of the tried so that one will e in front and one n each side of the unera. leaving ce space to work

chind the instrument. Be sure that the camera stands percily level or the picture will run slanting or bias across the ound glass and consequently across the negative when it is ade. If your eye is not accurate, fill a tiny vial with alcohol. aving an air-space; cork the vial tightly and you have as good pocket level as you could buy. Lay this on top of the camera and move the tripod until the air bubble is just in the center the vial; the picture will then be straight. The eye will be actively with practice become trained to the requisite accurbut the vial will prove a good friend until this time arrives. Now the focusing cloth comes in. Full-fledged photographers is a square of black velvet, but I have got along very well ith two thicknesses of black calico about a yard square. a moment you look through the ground glass you will see the of the cloth; without it the image appears only a faint, inouct, shimmering blur of earth and sky. Now draw the h over your head and about the camera, leaving only the uncovered. The picture comes out in the darkness, showall the beautiful tints of sky and landscape - but upside down, 4 more or less distinct, as the focus, or distance from the obpictured, is made more or less correct. Draw the bellows utly back or forward until the image is sharp and fine as a It may be necessary even to move the camera closer or farther away from the subject.

THE DIAPHRAGM OR STOP.

You have probably discovered ere this a little slit in the top of the tube which holds the lens and fitting into this a removable metal slide with a hole in each end, one of which is larger than the other. There may, perhaps, be extra slides with extra small or large holes. The slide is a diaphragm or stop and is used to shut out all light from the lens, except what comes through the hole. The purpose is to control the amount of light passing through the lens in order to get a perfect image on the ground glass. Either too much light or not enough will be equally fatal to a good picture. The smallest stop is seldom used except with extremely sensitive plates, the mid-dle size answering most purposes. For indoor work or on cloudy days larger stops, or even the largest, may be needed.

When focusing outdoors try the small stop, then a larger one and compare results; that one is best which shows a clear picture to the very edge of the glass, with no misty or hazy looking spors. To change the stop simply, pull out the slide and put it back upside down.



PLATE.

Having secured the correct focus, unfastenthe ground glass from the back of the camera or drop it down like a trap-door-as the model may provide -and adjust the plate-holder place. A holeer must always fit the camera tightly, for otherwise white light will leak in



A PERFECT LANDSCAPE EFFECT.

and spoil the picture. This is the most common fault of cheap cameras and the source of many seemingly inexplicable

If there are any doubts on the subject, keep a strip of black velveteen about half an inch wide and long enough to go around the camera and pin easily; pin it over the line between camera and holder and let it remain until the exposure is made. Never remove the focusing cloth from the camera until the exposure is over, and if you use a hand camera, throw a black silk handkerchief over it after the plate-holder has been attached. Now for the exposure: draw very gently the slide of the plate-holder almost out, take the cap or hood off the end of the lens, count four, replace the cap, push back the slide- and the thing is done. It will be worth while to repeat all this a good many times, while I introduce "our friend the enemy," LIGHT.

It is light that makes and unmakes the picture, not the machine we have just been learning to use. That machine is like a mouse-trap; it captures, but it does not create. It is merely a cunningly arranged light-trap, and the finest photograph is only a contrast of light and shade: that is, light and absence of light. The light slips in through the lens and shines brightly on some parts of the sensitive plate and dimly on other parts that are shadowed by the objects in the picture, changing the delicate chemicals with which the plate is coated, so that when