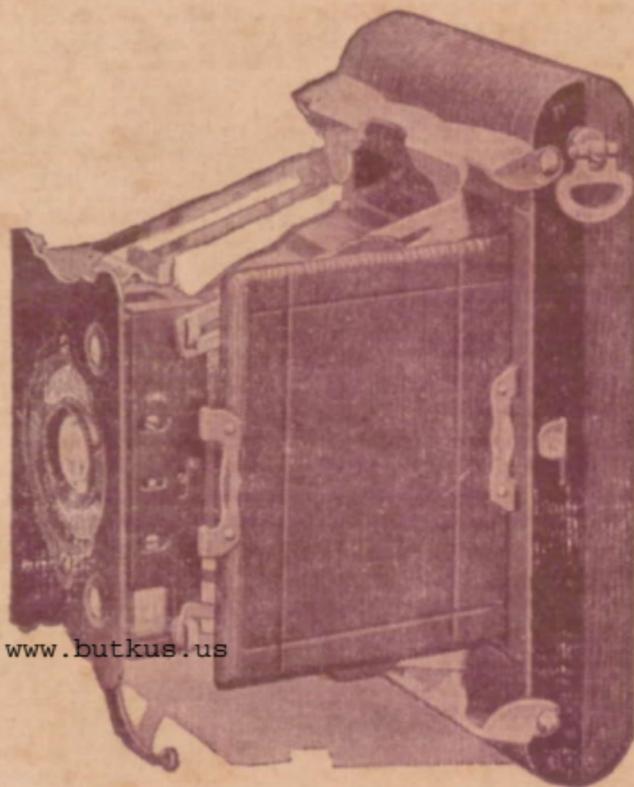


# Successful Picture Making WITH THE VEST POCKET SENECA



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PRICE, 10 CENTS

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**Seneca Camera Mfg. Company**  
ROCHESTER, N. Y., U. S. A.

**Specify**  
**No. 254 Vulcan**  
**Film**

For your VEST POCKET  
SENECA. The uncertain-  
ty of getting the correct  
film for your camera will  
be gone if you

**Order Film by**  
**Number**

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VEST POCKET SENECA CAMERAS  
accommodate with equal facility  
any standard make of film cartridge.

## **Contents**

**Part I—Loading the Camera**

**Part II—Making the Exposure**

**Part III - Removing the Film**

**Part IV—Developing the Film**

**Part V—Making the Prints**

**Part VI—Greater Possibilities**

## **Before Loading**

Before attempting to take pictures with the Vest Pocket Roll Film SEN-ECA Camera, read these pages and learn exactly how to operate its many parts correctly. Familiarize yourself with the lens and shutter, understanding the significance and exploring the operation of the several working parts.

Although the camera may be loaded in direct sunshine, it is safer to perform this part in subdued light. Sufficient light will pass through the lens in a small fraction of a second to change the sensitized surface. In the same amount of time a ray of sunshine may penetrate the loosened wrapping and destroy the result of much patient effort to produce pictures you will afterwards cherish.

Again we say it,—read the directions carefully and investigate the use of every part before the film is loaded in the camera. Finally, see that the shutter is closed before loading.

### **Warning**

*While the camera is loaded, do not expose the lens to a strong light until the bellows is extended.*

## PART I

### Loading the Camera

I—Push the slide catch upon either side of the camera as far as possible away from the end upon which the winding key is placed. Gently loosen the leather covered back and lift off. See Fig. I.



Fig. I

II—The empty spool in the film chamber at the end of the camera opposite the winding key must be placed in the film chamber by the winding key. Lift the small arm at either side and remove the empty spool.

III—At the end of the film chamber opposite the winding key, lift the small arm. Now draw out the winding key and insert the empty spool which was removed from the film chamber at the other end. Turn the winding key until it slips back into position. See Fig. II.

IV—Place the camera face down upon a table before you, lift the small arm



**Fig. II**

at either side of the empty spool chamber (if they have fallen into their original positions) and drop into place the film cartridge to be exposed. Be sure that the number of the film (254) is upon the right side. Lock it into position by pressing down the side arms. See Fig. III.



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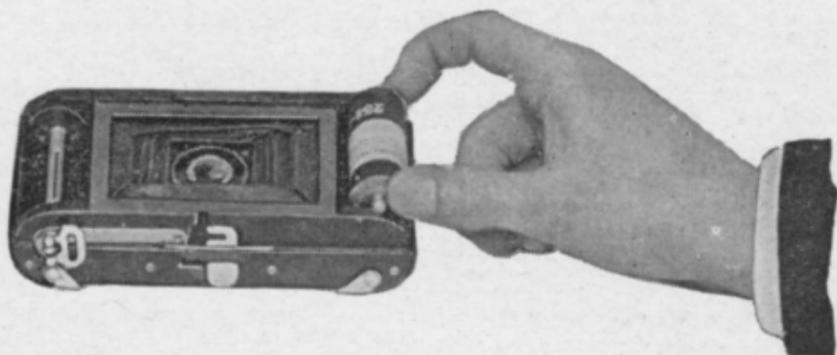
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**Fig. III**

V—Break the gummed sticker and extend the free end of the black paper through the slot of the empty spool, making very sure that the film has been started straight. Failure to take this precaution may cause the film to roll



**Fig. IV**

over the spool flanges and consequently to stick inside the camera. Now turn the winding key two or three times to bind the paper. See Fig. IV.

VI—Replace the back and push the slide catches as far as possible toward the winding key. Be sure that the back is attached securely.

VII—Turn the winding key until a hand appears in the ruby window. A few more turns will bring No. 1 into the center of the window, at which time the film is in position for making the first picture.

### **Warning**

*While the camera is loaded, do not expose the lens to a strong light until the bellows is extended.*

## PART II

### Making the Exposure

I—With the front of camera facing you, place the thumb nail under catch to the left and open the protecting cover. With the thumb and fore finger grasp the front of the camera in the pit at either end, and pull it forward until it locks. See Fig. V. The camera is now ready to take pictures. It is unnecessary to focus the lens, since it has only the one position.

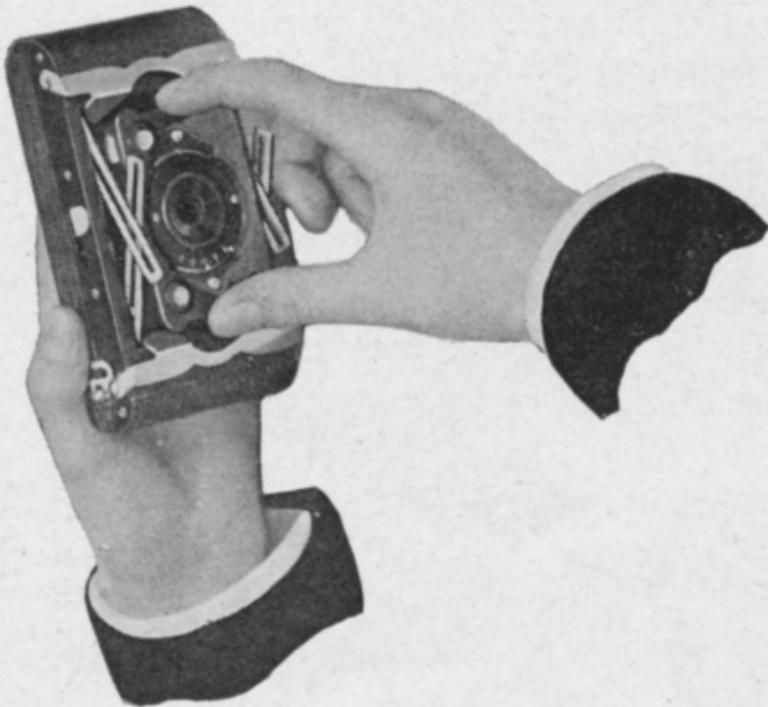
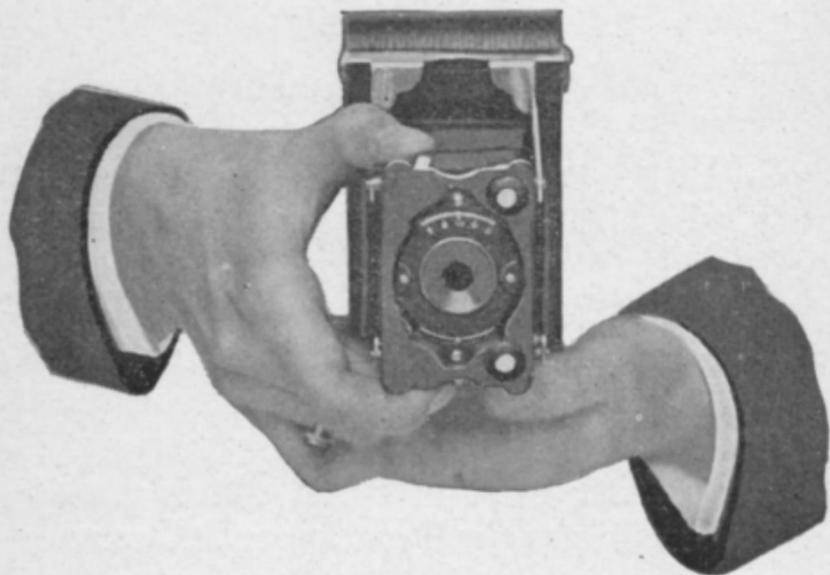


Fig. V



**Fig. VI**

II—To take a vertical picture, aim the camera at the object and locate the image in the finder. Always look directly into the finder from directly above it and not at an angle. The picture will include those objects which appear in the finder. See Fig. VI.

III—For a horizontal picture, turn the camera over to the side (see Fig. VII)



**Fig. VII**

and locate the object in the finder on the longer side of the front.

IV—Before attempting to make an exposure, get acquainted with the use and operation of every part of the shutter. Be sure that

First—*The upper indicator points to the proper time factor.*

Second—*The lower indicator is set at the proper diaphragm stop.*

Third—*An unexposed section of film is turned into position.*

The shutter is always ready for use, a firm pressure upon the trigger at the top being all that is required to operate it.

### **SNAP SHOTS**

Exposures at the fractional speeds can be made when the camera is held in the hand. The  $1/100$ ,  $1/50$  and  $1/25$  denote the approximate fractions of a second during which light is allowed to pass through the shutter to the film. At  $1/100$ , "snap" a speeding automobile at a distance; at  $1/50$ , include children at play or a man running swiftly; at  $1/25$ , take pictures of cattle grazing in a pasture or of a man walking slowly.

## TIME EXPOSURES

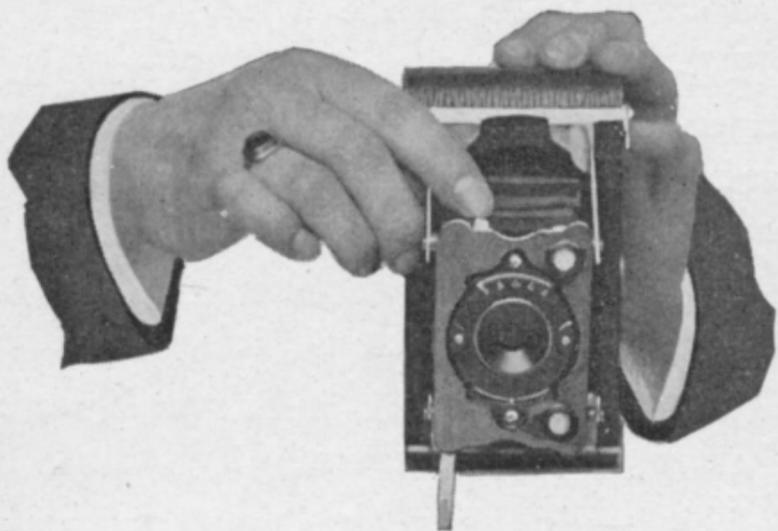


Fig. VIII

At T the shutter remains open after the first pressure until a second pressure closes it. At B the shutter stays open until the pressure is released. These two factors are used when light conditions are so poor that it is necessary to allow an exposure longer than

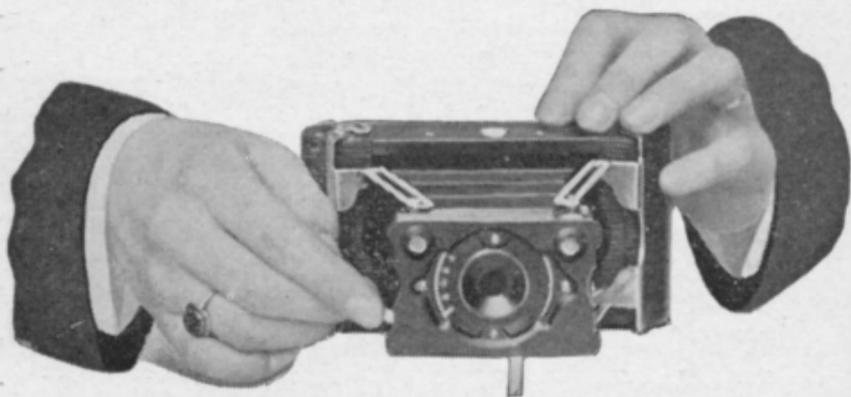


Fig. IX

1/25th of a second. The subject must be stationary, since the slightest motion will cause a blur. It is essential that the camera be placed upon some rigid base. A support is provided for both vertical (see Fig. VIII) and horizontal (see Fig. IX) pictures.

### **Time Needed for Interior Exposures**

The following table is figured for exposures made between the hours of 10:00 A. M. and 3:00 P. M., using diaphragm stop 16. If stop 8 is used give only one-half the time. If stop 128 is used, give eight times the exposure. The smaller the stop, the sharper the picture. The 16 stop gives the best results for interiors.

#### **White Walls and More than One Window**

Bright sunlight outside	4	seconds
Hazy sun .....	10	"
Cloudy bright .....	20	"
Cloudy dull .....	40	"

#### **White Walls and Only One Window**

Bright sunlight outside	6	seconds
Hazy sun .....	15	"
Cloudy bright .....	30	"
Cloudy dull .....	60	"

#### **Medium Colored Walls and Hangings and More than One Window**

Bright sunlight outside	8	seconds
Hazy sun .....	20	"
Cloudy bright .....	40	"
Cloudy dull .....	80	"

**Medium Colored Walls and Hangings  
and Only One Window**

Bright sunlight outside	12	seconds
Hazy sun .....	30	“
Cloudy bright .....	60	“
Cloudy dull .....	120	“

**Dark Colored Walls and Hangings  
and More than One Window**

Bright sunlight outside	20	seconds
Hazy sun .....	40	“
Cloudy bright .....	80	“
Cloudy dull.2 minutes,	40	“

**Dark Colored Walls and Hangings  
and Only One Window**

Bright sunlight outside	40	seconds
Hazy sun .....	80	“
Cloudy bright 2 minutes	40	“
Cloudy dull ..5	20	“

V—If the lens is an anastigmat, the markings beneath it will be  $f$  6.3, 8, 11, 16, 22, 32 or  $f$  7.5, 11, 16, 22, 32. Set the shutter at T, open it and watch the relative size of the diaphragm stops while the lower indicator is moved. When the indicator is at 8, the diameter of that opening is very close to  $1/8$  of the distance from the diaphragm to the film; at 16, approximately  $1/16$  of the distance from the diaphragm to the film, etc. This is the basic principle of the  $f$  System. Since the diameter of  $f$  8 is twice that of  $f$  16 and the area of a circle varies as the square of the diameter, four times as much light will pass through the  $f$  8 opening in a given interval of time as will pass through the

$f$  16 opening. On that account, the lens working at  $f$  8 is four times as fast as when working at  $f$  16. However, the diameter of the  $f$  11 opening is such that the area and accordingly the speed are one-half that of the  $f$  8 opening or twice that of the  $f$  16 opening.

With the greater speed possible by the use of the anastigmat lens, the lens loses proportionately in its ability to image clearly objects both near and far from it. This inability of fast lenses to have great "depth of focus" is not a new discovery nor a variable quantity, but is the result of a mathematical ratio which is as rigid as "two times two make four." Speed is gained only at a loss in depth of focus.

Every lens has a focal length, i. e.—the distance at which it must be placed from the film to produce sharp pictures. As lenses of the same speed have shorter and shorter focal lengths, their depths of focus become correspondingly greater and greater. This is why it is necessary to gauge the distances upon larger cameras but is not necessary upon the Vest Pocket SENECA Camera. If a negative suitable for enlarging purposes is desired, the anastigmat lenses at the  $f$  11 stop will satisfactorily include all objects six or more feet from the camera. For the same purpose the lens at either the  $f$  7.5 or the  $f$  8 stops will take all objects ten or more feet distant and

at the  $f$  6.3 stop, objects twelve or more feet distant.

The amateur must bear in mind that the negatives at these openings are sharp enough to stand enlargement to many times their original size. It is also true that a negative will yield a contact print sufficiently sharp to make a good picture and still not be capable of enlargement. This class of pictures which are commonly called "suitable for general purposes" are possible for all objects six or more feet distant with the anastigmat lens at either the  $f$  7.5 or  $f$  6.3 stops.

If the lens is not an anastigmat, it is marked 8, 16, 32, 64. This Uniform System (U. S.) was designed to show more clearly the relation between the speeds of the lens at each of the various stops, which ratio is shown by the numerical value. For instance, U. S. 8 is only twice as fast as U. S. 16. With the Vest Pocket SENECA all objects six feet or more distant are sharply in focus.

Anastigmat Lenses are marked according to the  $f$  System, other lenses by the U. S. System. The table shows the relation between the most commonly used stops of both system:

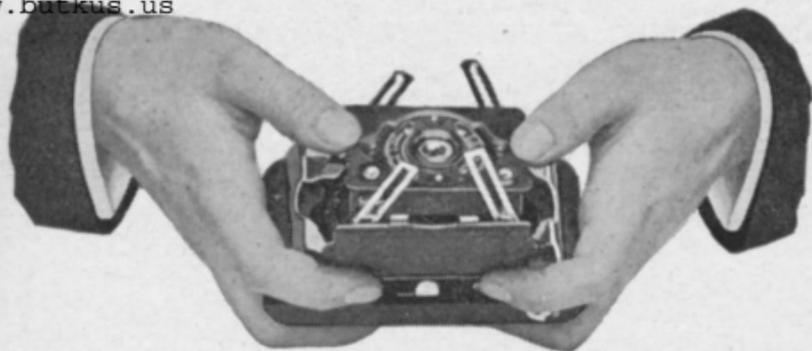
U. S.	8	16	32	64	
$f$	8	11	16	22	32

Keep this relation clearly in mind in order that the indicators may be intelligently set for each exposure.

As a basis to work from, set the indicator at 16 for pictures of objects in direct sunlight if taken in the middle of the day. Use the U. S. 8 or *f* 11 stop for objects in direct sunlight earlier in the morning or later in the afternoon. When the light seems bright,  $1/50$  is satisfactory, but otherwise use  $1/25$ . The anastigmat lens may be used with the largest opening for snapshot work under unfavorable conditions, but the lens which is not an anastigmat cannot get the pictures under such conditions except by time exposure. Do not adhere too closely to these directions, they are only general suggestions for use in making the first exposures. The user's experience will be the best guide.

VI—To close the camera take both hands (as illustrated in Fig. X) and with the thumbs gently press downward until the front of the camera releases itself from the side arm catches and falls into position.

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**Fig. X**

## PART III

### Removing the Film

I—After taking the eight exposures, turn the winding key until all the paper is wrapped around the exposed film.

II—Remove the back as before and take out the exposed roll.

III—Use the gummed sticker in the now empty spool to keep the exposed roll tightly rolled.

IV—Do not twist the film on the spool in order to tighten it; it is likely to rub the emulsion and consequently to spoil your pictures.

V—Replace the back upon the camera in readiness for use upon the next occasion.

VI—In case you are developing your own pictures, the film is ready for the dark room. If you are having your pictures developed and printed, ask your dealer to show how you may secure more pleasure from the time spent in photographic work by doing your own finishing.

## PART IV

### Developing the Film

These directions for developing are not to be regarded as absolute, but only as general hints from which the amateur should deviate at the first moment he obtains more pleasing results. Remember that the value of any rule in photography is gauged by the excellence or mediocrity of the result secured by following that rule. If you find another way of getting a better or even the same result, use the new way at once, you are widening your acquaintance in picture making.

I—Empty the contents of the M. Q. tube (both chemicals) into eight ounces of water and place in a tray at your left.

II—In the center place a tray of clear cool water for rinsing.

III—At the right set the tray of acid hypo solution, for making which complete directions are given upon the box.

IV—Exclude all rays of white light from the room and let the ruby light be at least one and one-half feet from the developing tray.

### Developing

I—Unroll the film and detach the entire strip from the protecting black paper.

II—With one end of the strip in each hand, pass it continuously through the developer. In about one minute the blank spaces between the pictures will begin to show. By two minutes the images will show somewhat clearly.

III—Continue the development for five or ten minutes until the contrast between the light and dark parts of the negative has become very distinct or the image begins to show on the back of the film. If some of the negatives, as you hold them between your eye and the ruby light, are darker than others, they have been exposed for a longer time, but this difference will be easily taken care of in the printing. It is only necessary to watch the degree of contrast.

### **Rinsing**

I—After developing sufficiently, rinse three or four times in the middle tray of water before you.

II—If desired, the exposures may be cut apart and fixed separately.

### **Fixing**

I—Pass the negatives face down through the solution two or three times before completely submerging them in the hypo solution.

II—If the negatives were not cut apart, fold the strip several times without allowing it to crack at the ends.

Press these down so that the solution will reach all parts of the film. Two or three minutes after the last trace of milkiess has disappeared, it is safe to admit white light to the room. Allow the negatives to remain in the hypo solution for ten minutes longer.

III—Remove the negatives to running water and allow them to remain there for an hour. In case running water is not available, change the water five times the first ten minutes, moving the films occasionally, and then allow them to soak for an hour. If desired, the water may be changed four or five times during a half hour of washing. It is essential that the negatives be thoroughly washed.

IV—Suspend the wet negatives in such a way that neither side will come in contact with anything while drying. The Defender Film Clip will be found to be very convenient for this purpose as well as for handling the films while developing.

## **Defects in Negatives**

### **Veiled Whites or Fog**

Film handled too close to ruby light.  
Exposed to rays of white light.

### **Muddy Effects**

Exhausted developer.  
Forcing under-exposed negatives in development.

Too warm a developing solution.

### **Irregular Light Spots**

Uneven development due to failure to keep all parts of the negative evenly moistened during development.

Uneven immersion in the developing solution.

Over exposure.

Air bells upon the film during development.

### **Milky Spots on Negatives**

Failure to keep negatives entirely covered by fixing bath or insufficient time for fixing.

### **Dont's**

Don't start until the chemicals are thoroughly dissolved.

Don't use a tray for developing if it has previously been used for hypo solution or final washing.

Don't use chemicals after their strength is gone. A hypo solution is exhausted when air bells settle around the edge of the tray and remain there. When the developing solution loses its strength, it turns brown.

Don't allow one ray of white light to enter the room.

Don't hold the strip too close to the ruby lamp, it may cause fog.

Don't let a trace of hypo reach the developer, a drop may spoil the whole solution. Wipe your hands upon a clean towel each time after taking them from the hypo solution.

Don't remove the negatives from the hypo until they are thoroughly fixed. Too long is better than too short.

Don't blame the materials, read the directions over again or ask your dealer.

## PART V

### Making the Prints

I—Mix the contents of the M. Q. tube (both chemicals) thoroughly with four ounces of water at about 70° Fahr. and place in the tray at the left.

II—In the center have a tray of clear cool water for rinsing the prints after developing.

III—Dissolve thoroughly the acid hypo according to the directions upon the box and set the tray to the right.

IV—Darken the room to semi-darkness. It is unnecessary to have the room completely dark since Argo paper can be handled safely ten feet from an ordinary gas jet.

### Developing

I—Place the smooth side of the negative against the glass of the printing frame, allowing the dull or picture side of the film to face up.

II—Take one sheet of the developing paper from its light proof wrapping and lay it concave-side down upon the negative. This allows the dull surface of the negative to come into contact with the concave side of the paper.

*For a negative of normal contrast use Normal Argo to obtain best results. When the negative is weak or thin, use Hard Argo. If the dark places (the high lights of the negative) are very*

*dense and the contrast between the light and dark portions very marked, double the amount of water and use Soft Argo. The time of exposure and development will be somewhat lengthened. It is very important that paper with the correct degree of contrast be used with each class of negative. A soft or weak paper for instance with a contrasty negative will produce the same result as a contrasty paper with a weak negative. The Normal Argo meets the average requirements of an amateur more closely than any other degree of contrast.*

III—Clamp the back of the printing frame into place and expose to artificial light for several seconds.

*With an ordinary gas light and a negative of average density, expose Argo Paper about eight seconds—counting one hundred, two hundred, etc.*

IV—After exposure to the bright light, hide the exposed paper until the room has been darkened enough to permit its being handled safely again. Remove the paper from the frame and immerse it in the developer with a quick sidewise motion so that the solution reaches all parts of the paper at approximately the same time. The room may now be lighted again to enable the operator to follow the developing more closely.

V—Leave the paper in the developer until the picture has come up to the

right shades of black and white. The picture will begin to appear in about six seconds.

*If the shadows are light or foggy and appear slowly, the paper has not been exposed long enough. If on the other hand the shadows are very intense and come up quickly, the exposure has been too long. Before making any exposure, cut a sheet of paper into strips and make trial exposures. You will soon find what exposure gives the best results. Not only will this save a considerable amount of paper, but it will enable you to obtain pleasing results more quickly.*

### **Rinsing**

I—At this point take the print from the developer quickly and rinse it in the middle tray.

### **Fixing**

I—Submerge the print in the hypo solution and allow it to remain for fifteen minutes. See that the prints do not become matted, since in that case the hypo solution will not fix them evenly.

II—Wash the prints in running water for an hour, taking care again that they do not become matted. If running water is not available, change the water ten or twelve times during a half hour. Be sure that the prints are thoroughly washed.

III—Place the prints face down on either stretched cheese cloth or a blotter. The time necessary for drying may be shortened by first laying them upon a piece of clean glass and pressing the surplus water out. Then dry them upon cheese cloth or blotters as before.

### **Defects in Prints**

#### **Foggy Whites**

Paper handled in too strong a light.  
Paper too old.

#### **Muddy Effects**

Forcing development of under exposed prints.  
Exhausted developer.

#### **Irregular Light Spots**

Uneven development due to failure to keep print fully submerged during development or to immerse print evenly.  
Over exposure to light.

#### **Stains**

Over development.  
Forced development.  
Chemically dirty dishes or hands.  
Failure to fix a sufficient length of time.

#### **Round White Spots in Clusters**

Air bells upon the print after being immersed in developer. Rub the print lightly with the finger to scatter them.

### **Oval Dark Spots in Clusters**

Air bells upon the print after being immersed in the fixing bath face downward. Immerse them face upward and move about to displace the bubbles.

### **Dont's**

Don't start until the chemicals are thoroughly dissolved.

Don't use a tray for developing if it has been used for pyro developer, hypo solution or final washing.

Don't use chemicals after their strength is gone. A hypo solution is exhausted when air bells settle around the edge of the tray and remain there. When the developing solution loses its strength, it turns brown.

Don't have the lights too bright while the print is in the developer, it may cause fog.

Don't fix the prints too long, it has a tendency to turn them brown.

Don't let a trace of hypo reach the developer, one drop may spoil the whole solution. Have a clean towel handy after taking the hands from the fixing bath.

Don't blame the materials if your first results are not as good as you expected, read the directions over again or ask your dealer.

## PART VI

### Greater Possibilities

The popularity of the Vest Pocket Seneca has to a great extent been due to the low expense of its upkeep and the convenience of carrying it about. For the vacationist, hunter, soldier or whoever must travel with a minimum of baggage, its all-around advantages are unequalled.

For the lover of pictures for pictures' sake to whom the size of the machine is not a consideration, the post card size is still the favorite. Since the angle of view covered by the lens is approximately the same on all cameras, the size of an object will be twice the height on a  $3\frac{1}{4} \times 5\frac{1}{2}$  picture that it will be on a  $1\frac{5}{8} \times 2\frac{1}{2}$  picture. The greater size allows more objects to be visible to the eye; or, as we photographers express it, gives more details.

When the lens gives a wealth of details in the corners of the picture, it is said to have great covering power. When the lens makes this detail so clear cut that an enlargement many times its original size is clear and not a bit "blurry," it is said to give definition. Covering power and definition are the two most important qualities of a picture and characteristics of a picture by which the quality of the lens is determined. However, the light condi-

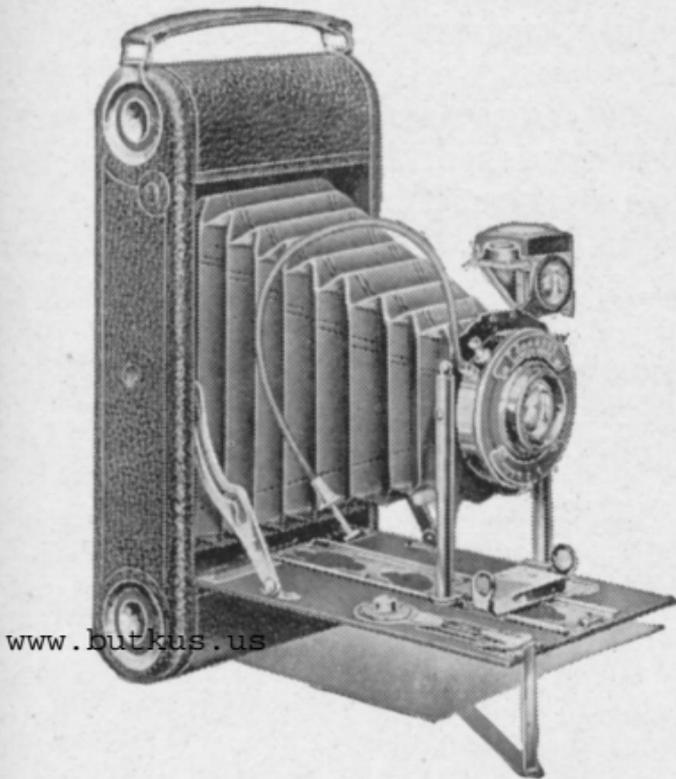
tions under which the picture may be taken at snapshot must be considered as well as the quality of picture taken. The less the intensity of light necessary, the greater the speed of the lens is said to be.

A careful amateur always inspects the lens upon the machine whose purchase he is contemplating. It is quite probable that his selection will be one of the Anastigmat type since that offers the advantages of perfect covering power and microscopic definition with speed to spare. These three qualities usually go hand in hand, the determining factor being speed. The Seneca Anastigmat *f* 7.5 Lens at its greatest aperture gives all in the way of definition and covering power that can be secured. Its maximum speed, slightly faster than the average, allows snapshots to be made successfully in light shade.

When fitted in a Victo Shutter allowing fractional speeds of 1/10, 1/25, 1/50 and 1/100 seconds besides time and bulb exposures, this lens equipment upon the No. 3A Roll Film Seneca Camera is an unusual value. For those who desire a greater range of shutter speeds, the Autic Shutter permits fractional speeds of 1, 1/2, 1/5, 1/25, 1/50 and 1/100 seconds besides the usual time and bulb exposures.

The extreme speed reached upon roll film cameras of this type and size to-

day is  $f$  6.3, that of the Seneca Extra Rapid Anastigmat Lens. This extreme speed, sixty per cent faster than the average, demands absolute accuracy in focusing since speed is gained only at



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### No. 3A Roll Film Seneca

a sacrifice in depth of focus but it allows snapshots under unfavorable light conditions when a slower lens would fail. To be sure a slower lens would get the picture by making a time exposure providing the object would wait to be taken. The covering power and definition are fully up to the Anastigmat standard. The Optimo Shutter is

capable of the extremely fast exposure of 1/300 second besides all the slower speeds of the Autic Shutter.

The camera upon which these lenses are fitted is one to be proud of. Its value is measured by more than its exterior covering of genuine leather. To the photographer of architectural subjects, the rising and falling front will allow exposures from a wide variety of positions without the fear of distortion. The spirit level assures the uncertain user that his pictures will be exactly vertical or horizontal, as he wants them—no more homes or buildings on an angle like the Leaning Tower of Pisa. It is distinctly a Seneca Idea.

Make the Roll Film Seneca with an Anastigmat Lens your choice; your success with the "Little Indian" you now have is our best recommendation.

## PRICE LIST

Special Roll Film Seneca Camera, No. 3A, $3\frac{1}{4} \times 5\frac{1}{2}$ , fitted with Velostigmat $f$ 6.3 Lens, and Op- timo Shutter .....	\$45.00
Special Roll Film Seneca Camera, No. 3A, $3\frac{1}{4} \times 5\frac{1}{2}$ , fitted with Bausch & Lomb Zeiss Tessar IIb, $f$ 6.3, Anastigmat Lens and Optimo Shutter .....	63.00
Roll Film Seneca Camera, No. 3A, with Seneca Anastigmat $f$ 7.5 Lens and Victo Shutter.....	25.00
Roll Film Seneca Camera, No. 3A, with Seneca Anastigmat $f$ 7.5 Lens and Autic Shutter.....	27.50
Leather Carrying Case with strap	3.00
Leatheret Carrying Case .....	1.25
Vulcan Film Cartridge, No. 244, 6 Exposures.....	.40
No. 244, 10 Exposures.....	.70
Portrait Attachment .....	.50
No. 400 Metal Tripod, 4 sections..	3.00
$3\frac{1}{4} \times 5\frac{1}{2}$ Tank Developing Pow- ders, per package .....	.30
M. Q. Developing Powders, per box (six tubes) .....	.25
Seneca Acid Fixing Powder, per 1 lb. package .....	.25
Do. per $\frac{1}{2}$ lb. package.....	.15
Do. per $\frac{1}{4}$ lb. package.....	.10

Vest Pocket Seneca Camera with Meniscus Achromatic Lens.....	\$ 7.00
Vest Pocket Seneca Camera with Rapid Rectilinear Lens.....	8.50
Vest Pocket Seneca Camera with Seneca Anastigmat <i>f</i> 7.5 Lens..	12.50
Vest Pocket Seneca Camera with Seneca Anastigmat <i>f</i> 6.3 Lens..	22.50
No. 254 Vulcan Film Cartridge, 8 exposures .....	.20
Leather Case .....	1.25
Hand Bag .....	.40
Vest Pocket Tank Developing Powders, per package ½ doz...	.25
M. Q. Developing Powders, per box (six tubes) .....	.25
Seneca Acid Fixing Powder, per 1 lb. package .....	.25
Do. per ½ lb. package.....	.15
Do. per ¼ lb. package.....	.10
Argo Paper, per dozen sheets, 1⅝ x 2½ .....	.10
Disco Paper, per dozen sheets, 1⅝ x 2½ .....	.10
Actino Flash Cartridges, per box (six cartridges).	
No. 12 for 12 foot distance.....	.35
No. 18 for 18 foot distance.....	.50
No. 30 for 30 foot distance.....	.65

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