

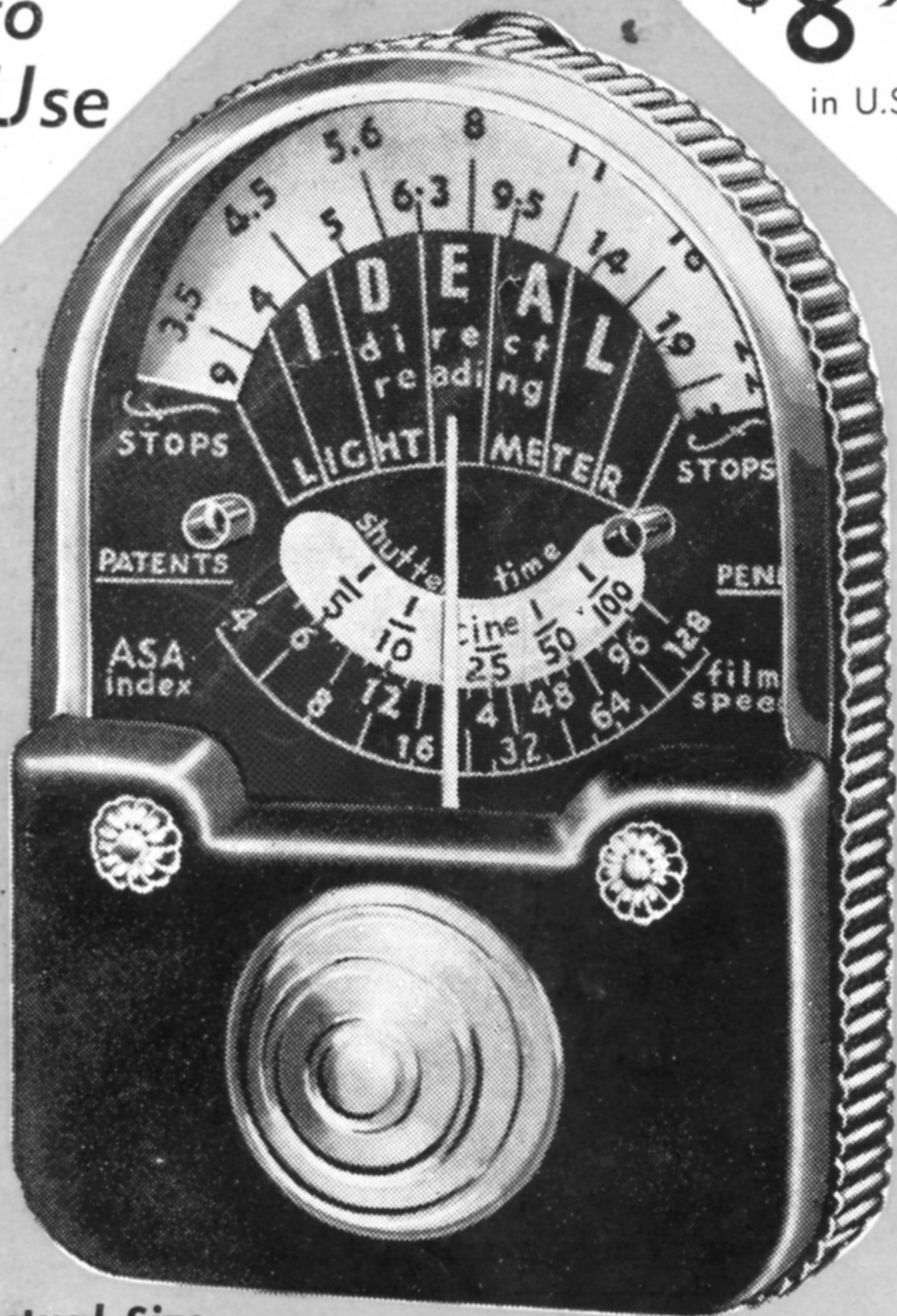
ADD \$1 FED. TAX

*Easiest
to
Use*

only

\$ **8** 95

in U.S.A.



Actual Size

EASIEST TO USE!

The IDEAL Direct-Reading Photo-Electric LIGHT METER is by far the simplest and easiest-to-use.

Just hold the Meter up to the subject, facing the camera. Instantly the Meter shows the best lens setting directly in f-stops.

No guess-work or computing, no "light values" to interpret. A child can use this Meter as well as an expert photographer.

The IDEAL EXPOSURE METER is a true incident light photo-electric meter. That means it measures all light that falls on the subject, not just reflected light. Experts consider incident light the most accurate and dependable method of insuring correct exposure.

This Manual explains how the Meter helps get perfectly exposed pictures every time, with:

Any camera — Movie, still, or box type.

Any lens — Fast, slow, telephoto, etc.

Any film — Color, or black-and-white.

Any shutter speed, indoors or outdoors, daylight or artificial light, whenever there is light enough to take pictures with your equipment.



• OUTDOOR PICTURES •

Just hold the Meter up to the subject's face, or the main object, with Meter facing the camera. Pointer indicates correct f-stop for the lens on the outer yellow ring.

Do not shade or cover the Collector Lens over the photocell. Be sure Shutter Time and Film Speed settings are correct as described on page 4.

SHUTTER TIME—FILM SPEED

Turn the knob in back of Meter until Shutter Time you want is opposite ASA film speed of the film you use. This single adjustment instantly matches the Meter to your camera and eliminates all further calculating. This setting need not be changed until you wish to use a different shutter time or film speed.

Film Speeds of commonly-used films — See page 11. Shutter time — Movie Cameras use Cine/25 for normal speed (16 frames), 1/10 for fast motion (8 frames) 1/50 for slow motion (32 frames). These values are approximate, but close enough for excellent results. Box cameras and folding cameras with only a single shutter speed use Cine/25. Cameras with adjustable shutters use Cine/25 or 1/50 for ordinary snapshots, with slower shutter speeds for posed pictures in poor light, and higher shutter speeds for pictures of moving objects or people in good light or with fast lens.



EXAMPLE

AS SET FOR:

- 1/10 sec. ASA 4
- Cine/25 ASA 12
- 1/50 sec ASA 24
- 1/100 sec ASA 48
- 1/200 sec ASA 96

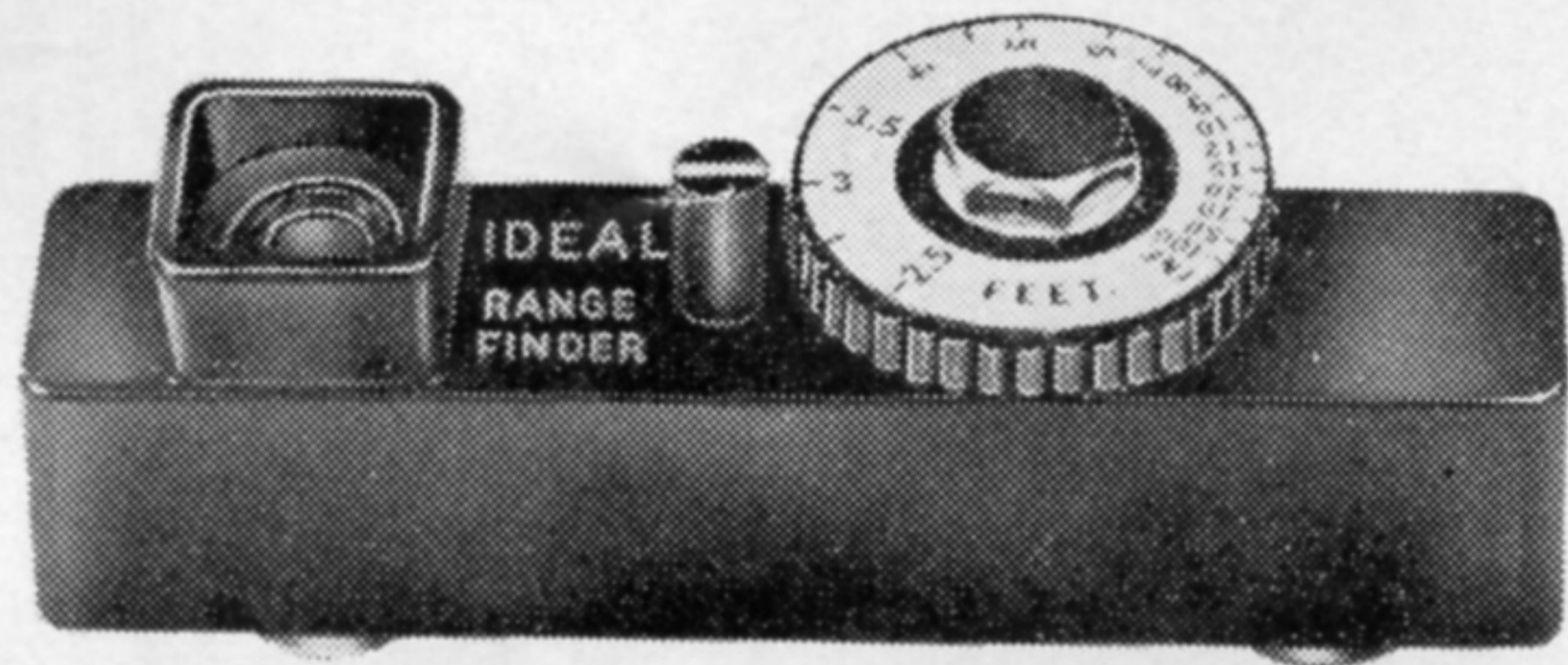


• INDOOR PICTURES •

Just hold Meter up close to subject's face, or to the main object, with Meter facing the camera, so that same amount of light falls on the Collector Lens as on the subject. The pointer indicates correct lens setting. Be sure Shutter Time and Film Speed settings are correct. If indicated setting calls for a larger f-stop than maximum camera lens opening, move lights closer or increase illumination, or use slower shutter speed.

Sharp, brilliant pictures require perfect focus as well as correct exposure. The IDEAL Rangefinder insures perfect focus every time.

\$2⁹⁵
in U.S.A.



No need to guess at distances when you have the IDEAL Precision Rangefinder. This beautiful optical instrument measures distance when you look through it. For all cameras having a distance scale. Available in feet or meters. No attachment to camera, very easy to use.

3-YEAR SERVICE GUARANTEE

The IDEAL Range-finder is very durably built and will give excellent service for many years if used with the care due an optical instrument. If it is dropped or banged, the scale may shift slightly. This may be corrected by turning the set-screw on the dial, or return Range-finder to the FACTORY with 50c to cover postage and handling, for resetting and recalibration. Address package to:

FEDERAL INSTRUMENT CORP.
14-02 Broadway, L. I. City 6, New York

**It's Easy to use the
IDEAL RANGE-FINDER!**

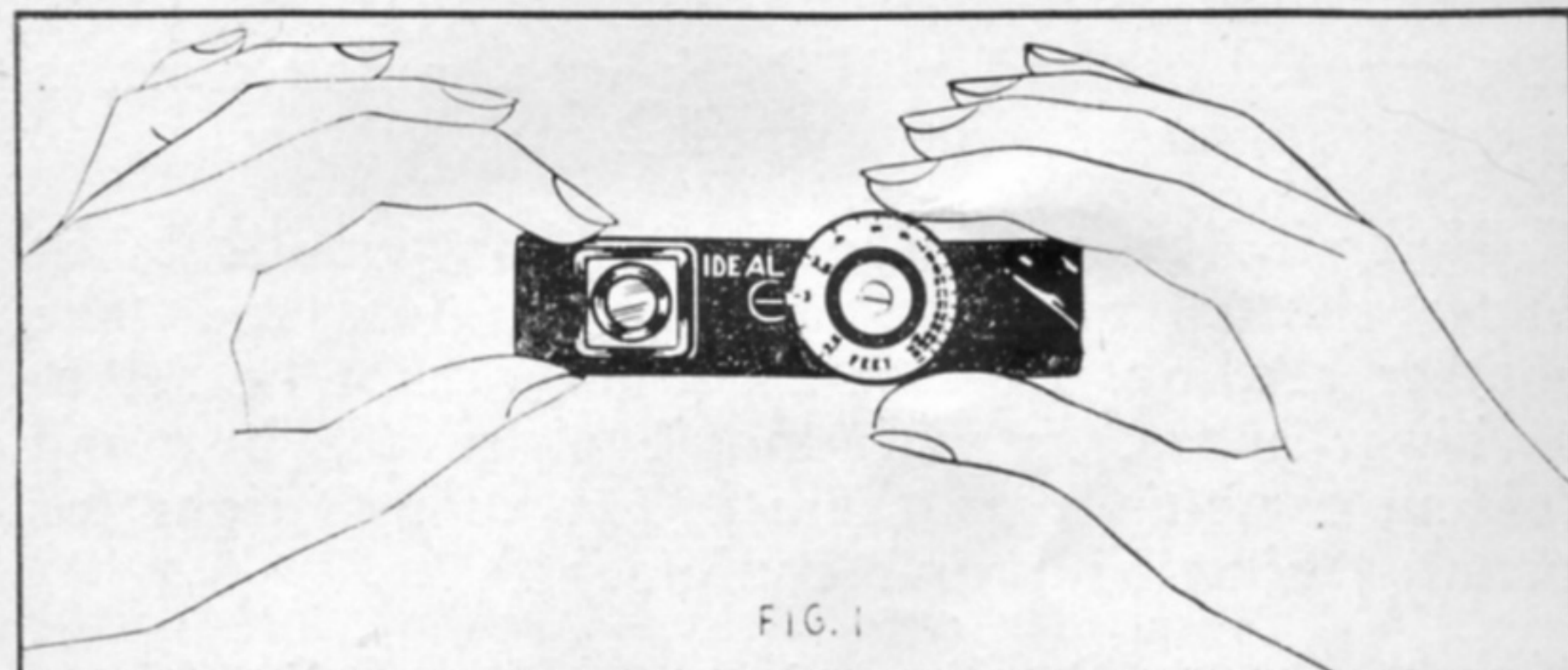


FIG. 1

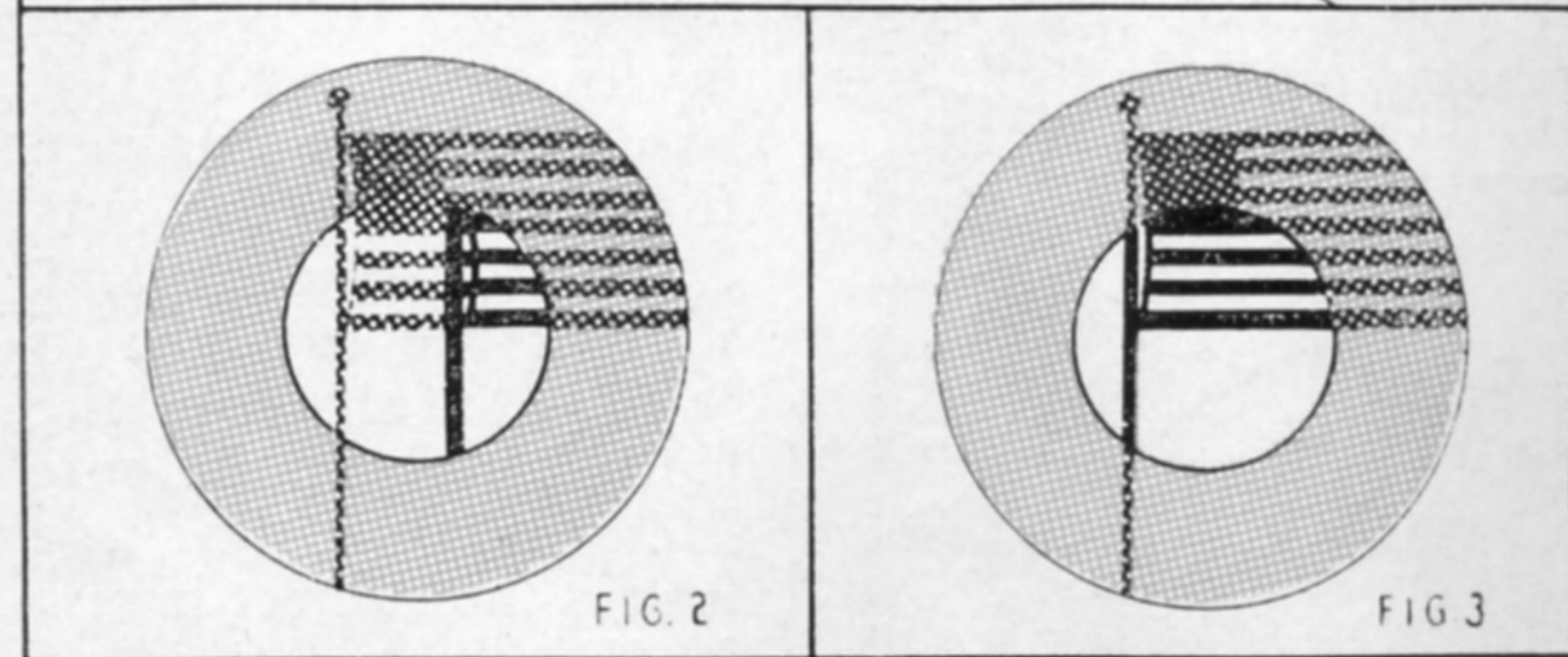


FIG. 2

FIG. 3

Hold Rangefinder level, with fingers away from rear lenses, and look at subject through the square eyepiece. Locate subject in white circle. A double image will appear. Turn dial until double images come together into single image, and read distance on the dial opposite the white pointer. It is easiest to focus on a vertical line.

The IDEAL Exposure Meter is carefully constructed to give many years of excellent service if treated with the care that a sensitive instrument deserves. **TREAT IT AS YOU WOULD A GOOD WATCH.**

Do not store Meter close to other meters. All exposure meters contain strong magnets, which are weakened or affected by the continued presence of other magnets.

No zero adjustment is necessary with the IDEAL Exposure Meter. Slight variations of the zero point do not appreciably affect the Meter's accuracy.

No compensation is necessary for light or dark backgrounds or for telephoto or wide-angle lenses.

Filters are rated 2X, 3X, 4X, etc. If you use a filter, increase the exposure as many stops as the number in its "filter factor" rating.

Inexpensive cameras often have one, two, or three "hole" stops. The No. 1 stop (largest hole) is usually f-16, No. 2 is f-22, No. 3 is f-32.

Do not point the IDEAL Exposure Meter at the subject, or hold horizontally or use otherwise like a reflected-light type meter. The IDEAL Exposure Meter is an incident-light meter and should be held only **UP FACING THE CAMERA** with the same light falling on the Collector Lens as on the subject.

ROLL FILM AND FILM PACK	Daylight	Tungsten
Kodak Super XX	100	80
Super Ortho-Press	100	50
Plus X	50	32
Verichrome	50	25
AnSCO Superpan Press	100	80
Plenachrome	50	25
Supreme	50	32
35MM. FILM		
Gevaert Superchrome	25	12
Kodak Super-XX Panchromatic	100	64
Pius X Panchromatic	50	32
Panatomic X	25	16
AnSCO Ultra Speed Pan	100	64
Supreme	50	32
16MM. MOVIE FILM		
Kodak Super-XX Pan. Rev.	100	80
Super-X Panchromatic	40	32
AnSCO Triple-S Pan. Rev.	100	64
Hypan Reversible	32	25
8MM MOVIE FILM		
Kodak Super-X Panchromatic	40	32
Cine-Kodak Reg. Pan.	10	8
AnSCO Triple S Pan. Rev.	100	64
Twin-8 Hypan	32	25
COLOR FILM		
Kodak Kodachrome Daylight	10	4 (f)
Kodachrome Type A	10 (f)	16
Kodacolor Roll Film	25	—
AnSCO 16mm Color Daylight	8	—
16mm Color Tungsten	—	12
35mm and Roll—Daylight	10	—
35mm and Roll—Tungsten	—	10

Sheet film and unlisted film — See ratings packed with film.

(f) WITH RECOMMENDED FILTER

3-YEAR SERVICE GUARANTEE

The IDEAL Exposure Meter is carefully constructed and tested, and will give many years of excellent service if used with the care due a sensitive instrument. It should be handled with the same care as a watch or fine camera.

This Meter is guaranteed against defects in material and workmanship for a period of three years from date of purchase. Should your meter fail to operate properly, pack it carefully and return it direct to the factory with \$1.00 to cover postage and handling for a complete recheck and all necessary repairs.

Address your package to:

FEDERAL INSTRUMENT CORP.

14-02 Broadway, L. I. City 6, N. Y.

Sold By

Made in U. S. A. by

FEDERAL INSTRUMENT CORP.

14-02 Broadway, Long Island City 6, N. Y.