

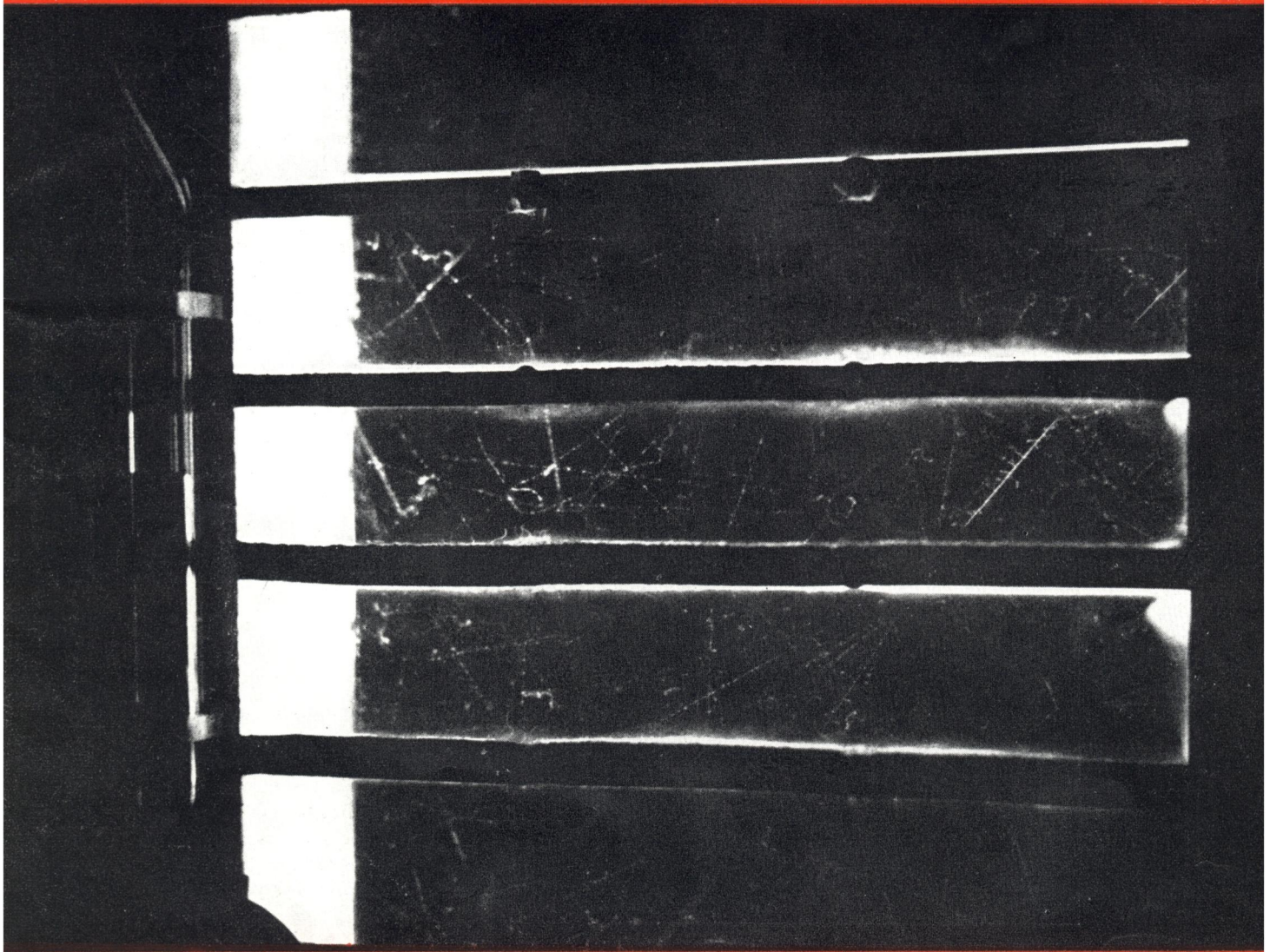
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JULY 9, 1949

SCIENCE NEWS LETTER

®

THE WEEKLY SUMMARY OF CURRENT SCIENCE



Cosmic Heavy-Weight

See Page 31

A SCIENCE SERVICE PUBLICATION

\$5.50 A YEAR

VOL. 56 PAGES 17-32



YOUR telephone receiver should treat each tone in the voice alike; that is important to you, because proper balance makes pleasant listening and easy understanding. Naturalness in receiver performance is pictured in a matter of seconds by the apparatus shown at left.

The receiver is clamped in place and an oscillator feeds into it frequencies representing all talking tones. Then a bright spot darts across an oscilloscope screen leaving behind it a luminous line which shows instantly

**It listens so
YOU
can hear better**

the receiver's response at each frequency. It is precise; and it is many times faster than the old method of measuring receiver performance point-by-point and then plotting a curve.

At Bell Laboratories, development of techniques to save *time* parallels the search for better *methods*. For each time an operation is made faster, men are freed to turn to other phases of the Laboratories' continuing job — making your telephone system better and easier for you to use each year.



BELL TELEPHONE LABORATORIES

EXPLORING AND INVENTING, DEVISING AND PERFECTING, FOR CONTINUED IMPROVEMENTS AND ECONOMIES IN TELEPHONE SERVICE.

WAR SURPLUS OPTICAL BARGAINS

ASSEMBLE YOUR OWN BINOCULARS



Complete Optics!
Complete Metal Parts
SAVE More Than 1/2 Regular Cost

GOVERNMENT'S 7 x 50 BINOCULARS

(American Made—not Jap, French or German)

Here's an unusual opportunity to secure a fine set of Binoculars at a substantial saving of money. Offered here are complete sets of Optics and Metal parts for the 7 x 50 Binoculars. These components are new and all ready for assembly. Full instructions supplied. **METAL PARTS**—Set includes all Metal Parts—completely finished—for assembly of 7 x 50 Binoculars. No machining required. A sturdy Binocular Carrying Case is optional with each set of Metal Parts.

Stock No. 842-Q.....\$39.40 Postpaid
plus \$4.80 for Case.....Total \$44.20

OPTICS—Set includes all Lenses and Prisms you need for assembling 7 x 50 Binoculars. These optics are in excellent condition—perfect or near perfect and have new low reflection coating.
Stock No. 5102-Q—7x50 Optics—\$25.00 Postpaid. **NOTICE:** Add 20% Federal Excise Tax to your remittance if you buy both Binocular Optics and Metal Parts.

ARMY'S 6 x 30 BINOCULARS

COMPLETE OPTICS & METAL PARTS—Model M-13A1, 6 x 30 Binoculars (Waterproof Model). Everything you need—ready for assembly. When finished will look like a regular factory job costing \$102 to \$120. The Optics are new, in perfect or near-perfect condition. Have new low reflection coating. Metal parts are new and perfect, all completely finished. No machining required. Complete assembly instructions included.

Stock No. 830-Q.....\$40.00 Postpaid
plus \$8.00 tax.....Total \$48.00

METAL PARTS ONLY—Model M-13A1, 6x30 Binoculars. No Optics. Same Metal Parts as described for Stock No. 830-Q.

Stock No. 832-Q—6 x 30 Metal Parts.....\$25.00 Postpaid

OPTICS FOR 6 x 30 BINOCULARS (No Metal Parts.) Perfect and low reflection coated.

Stock No. 5130-Q.....\$15.00 Postpaid
If you buy both the Binocular Optics and the Binocular Metal Parts, add 20% Federal Excise Tax to your remittance.

OPTICS AND METAL PARTS are available for Monoculars (1/2 a Binocular). For complete details, write for Bulletin Q.

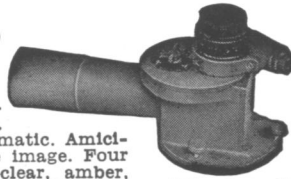
MOUNTED TELESCOPE EYE-PIECE—Kellner type. Excellent astronomical and other telescopes. War Surplus. Government cost about \$18.00. Focal length 24 mms. Lens Diameter 23 mms. Unusually wide field.
Stock No. 5189-Q.....Price \$3.25 Postpaid

We have over 200 different sizes and focal lengths of Plano-Convex, Double Convex, Concave and Meniscus Lenses, priced from 6c to 30c each. Write for Catalog Q.

New Bulletin on Microscope Sets, Filters, Reticles, Flat Glass. Write for Catalog Q.

8 POWER ELBOW TELESCOPE

Gov't Cost \$200.00
Our Price \$27.50



Big. 2 in. diameter objective. All lenses Achromatic. Amici-prism erects the image. Four built-in filters—clear, amber, neutral and red. Slightly used condition but all guaranteed for perfect working order. Weight 5 lbs. Can be carried but a trifle bulky. Excellent for finder on Astronomical Telescope.
Stock No. 943-Q.....\$27.50 Postpaid

FIRST SURFACE MIRRORS

Stock #539-Q—60 mm. x 80 mm....75c Postpaid
Stock #558-Q—45 mm. x 74 mm....50c Postpaid
Stock #547-Q—43 mm. x 140 mm.50c Postpaid
Stock #534-Q—25 mm. x 29 mm....25c Postpaid

LOW POWER RIFLESCOPES and ACHROMATIC LENSES to make your own higher power Rifle scope (2 1/2 to 7 1/2 power or over). Write for Bulletin "Q".

TELESCOPE EYE-PIECE—Consists of 2 Achromatic lenses F.L. 28mm, in a metal mount.
Stock No. 5140-Q.....\$4.50 Postpaid

MAKE YOUR OWN ENLARGER

MOUNTED ANASTIGMAT LENSES

Use for Projectors, Enlargers, Copying Cameras. Complete with Shutter and Diaphragm. Value about \$20. These were made for a specific camera but had longer or shorter focal length than could be used, and then the camera was discontinued. An excellent buy. **WE WILL INCLUDE FREE ILLUSTRATED BOOKLET on HOW TO MAKE YOUR OWN ENLARGER.**

Stock No. 8004-Q Speed f/7.7, focal length approx. 127 mms. Suitable for pictures, negatives, positives up to 3 1/2 x 4 1/4".....\$7.50 Postpaid

Stock No. 8006-Q Speed of f/7.7, focal length approx. 100 mms. Suitable for pictures, etc. up to 2 1/4 x 3 1/4".....\$8.50 Postpaid

Stock #8007-Q—Speed of f/6.3, focal length approx. 100 mms....\$9.50 Postpaid

CONDENSING LENSES—Seconds, but suitable for Enlargers and Spotlights.

Stock #1061-Q—6 1/2" dia. 9" F.L. \$2.50 ea. Pstpd.
Stock #1080-Q—5 1/2" dia. 7" F.L. \$1.00 ea. Pstpd.
Stock #1084-Q—2 1/2" dia. 4" F.L. \$1.00 ea. Pstpd.
Stock #1077-Q—2 3/8" dia. 3" F.L. \$1.00 ea. Pstpd.
Stock #1019-Q—6" dia. 16" F.L. \$2.00 ea. Pstpd.
Stock #1062-Q—6" dia. 9" F.L. \$2.00 ea. Pstpd.
Stock #1086-Q—1-11/16" dia. 3" F.L. \$.25 ea. Pstpd.

Stock #1103-Q—29/32" dia. 1/2" F.L. \$.50 ea. Pstpd.

NEW BULLETIN on our BIG VARIETY OF PRISMS—Over 50 different right angle Prisms, Rhomboidal, Binocular Porro, Leman, Porro-Abbe, Brashar-Hastings, Penta, Dove, Pentagon, Ocular, and Amici Roof Prisms. Also Beam Splitters, Wedges and many others. Request Bulletin Q.

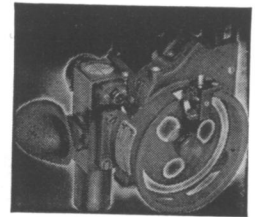
6 POWER PERISCOPE and ADJUSTABLE TRIPOD. 27" long. Focusing eye-piece. Adjustable cover for objective end. Govt. cost \$150. Tripod and mount worth more than purchase price
Stock No. 717-Q.....\$20.00 f.o.b. Audubon

NEW 50-PAGE IDEA BOOK "FUN WITH CHIPPED EDGE LENSES"

Contains wide variety of projects and fully covers the fascinating uses of all lenses in sets listed above . . . only \$1.00 Postpaid.

UNUSUAL BARGAIN BUBBLE SEXTANTS

These Army Air Forces Bubble Sextants costs the Govt. about \$125.00 each. A real bargain at our price at \$12.50! Wooden carrying case included. Also auxiliary items. Wartime used. **BUT COMPLETELY RE-PAIRED COLLIMATED AND PUT IN GOOD WORKING ORDER.** If not satisfied that Sextant is exactly as represented, return within 10 days for refund. Full directions for use accompany each shipment.



Stock No. 924-Q.....\$12.50 Postpaid
Same Sextant as above, but **BRAND NEW** and with Automatic Electric Averaging Device and Illuminated Averaging Disc for nighttime use. Govt. cost \$217. Though brand new we have rechecked Bubble and Collimation and **GUARANTEE** perfect working order.
Stock No. 933-Q.....\$22.50 Postpaid

BUBBLE SEXTANT—TYPE A-8A. Excellent condition but may be slightly used. Each has been carefully checked and collimated. Averaging device for nighttime use. Carrying Case and instruction booklet included. Gov't cost about \$325.00.
Stock #946-Q.....\$32.50 Postpaid

SIMPLE LENS KIT

Some Govt. surplus, some commercial surplus, some chipped rejects, some perfect, few coated . . . in any event an excellent bargain. Containing Plano Convex, Double Convex, Concave, Meniscus Lenses. Dia. range 6mm to 40mm. Assorted focal lengths.

Stock No. 5-Q—45 lenses.....\$5.00 Postpaid
Stock No. 10-Q—80 lenses \$10.00 Postpaid

10 LENS KIT—THE LENS CRAFTERS DELIGHT! Kit includes plainly written, illustrated booklet showing a specific project for every lens. Use these lenses in photography for copying. **ULTRA CLOSE-UP SHOTS.** Microphotography, for "Dummy Camera," Kodachrome Viewer, Detachable Reflex View Finder for 35mm cameras, Stereoscopic Viewer, ground glass and enlarging focusing aids. And for dozens of other uses in experimental optics, building **TELESCOPES, low power Microscopes, etc.**
Stock No. 2-Q.....\$1.00 Postpaid

LENS CLEANING TISSUE—1st quality sheet size 11 x 7 1/2 in. Made to Govt. specifications. High wet strength. Free of abrasives.

Stock No. 721-Q—500 sheets...\$1.00 Postpaid

SLIDE PROJECTOR SETS—Consist of all unmounted lenses you need to make the following size projectors:

Stock No. 4038-Q—2 1/4 x 2 1/4 in., \$3.35 Postpaid
Stock No. 4039-Q—2 1/2 x 3 1/2 in., \$3.85 Postpaid
Stock No. 4035-Q—35mm.....\$4.85 Postpaid

MOUNTED PROJECTING LENS SYSTEM—F.L. 91.44 mm (just right for 35-mm Projectors). Speed of F 1.9. Outside dia. of mount at one end 60mm. Length of mount 64mm.
Stock No. 4033-Q, \$3.00 Postpaid



THREADED OUTSIDE MOUNT FOR FOCUSING ABOVE SYSTEM (Not Illus.)—

Stock No. 715-Q.....\$1.00 Postpaid

HEAT ABSORBING PLATE GLASS
Stock No. 4009-Q—4" x 5".....35c Postpaid
Stock No. 4010-Q—2" x 2".....10c Postpaid

IF YOU'RE INTERESTED IN OPTICAL BARGAINS
Write for **FREE CATALOG Q**

We Have Literally Millions of War Surplus Lenses and Prisms for Sale at Bargain Prices. Numerous Types of Instruments Too!

ORDER BY SET OR STOCK NO.

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