

# • New Machines and Gadgets •

⚙️ **TRANSMISSION photometer** is an electric device that analyzes the composition of metals by reading a photographic plate of the metals' spectrum. It measures the density of the spectrum lines in the spectrograph, thus showing the proportion of alloy in the metal.

*Science News Letter, September 1, 1945*

⚙️ **SIGNALING searchlight**, a 12-inch unit used to send colored code messages, is housed in a drum-type casing on a trunnion bracket that pivots on a stationary base. It can withstand the roughest weather and severe repercussion. Nine words per minute can be sent with it.

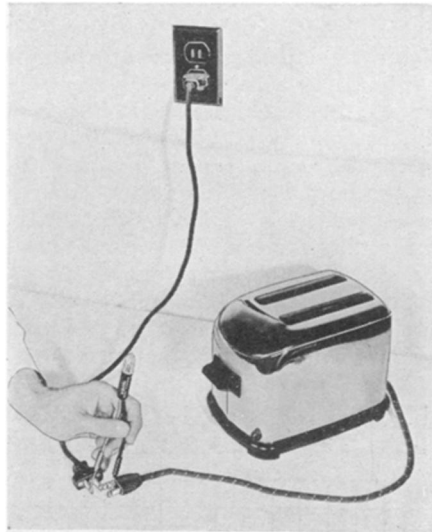
*Science News Letter, September 1, 1945*

⚙️ **DETACHABLE HEELS** for shoes, to make home replacement of worn heels easy, are held in position by threaded machine screws against permanent lifts under the heel part of the shoes in which are threaded sleeves. The head of the screw is countersunk in the removable heel.

*Science News Letter, September 1, 1945*

⚙️ **POLARIZING microscope**, that meets the requirements of most polarization microscopy, has an optical system containing Polaroid material in place of the usual calcite prism. It gives a noticeable increase in contrast in the image, it is claimed.

*Science News Letter, September 1, 1945*



⚙️ **CIRCUIT TESTER**, vest-pocket size, has a tiny neon lamp on its top that glows when the two contact points are put in an electric circuit, as shown in the picture. The intensity of the glow indicates the circuit condition; no glow shows a dead line.

*Science News Letter, September 1, 1945*

⚙️ **ADJUSTABLE reflector**, for a light suspended from the ceiling to permit concentration of light in any desired direction, is an ordinary umbrella-shaped reflector with a hole in its center that fits over a small globe on the supporting

rod. The reflector is rotated on the globe as desired.

*Science News Letter, September 1, 1945*

⚙️ **BOX-LIKE device**, somewhat bellows-shaped, to hold and help expel the contents of a shaving-cream or other collapsible tube, has two triangular and two rectangular sides. One of the latter is movable and hinged to the other at one end. When pressed it forces out the contents as needed.

*Science News Letter, September 1, 1945*

⚙️ **DENTAL COMPACT** has a toothbrush within it that may be opened out by means of a pivoted joint in somewhat the same manner as the blade of a jack-knife. Beside the compartment in the compact for the closed head of the brush is space for a small vial of dentifrice.

*Science News Letter, September 1, 1945*

If you want more information on the new things described here, send a three-cent stamp to SCIENCE NEWS LETTER, 1719 N St., N. W., Washington 6, D. C., and ask for Gadget Bulletin 274.

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