

# •New Machines And Gadgets•

⚙️ **SHOE HEEL**, recently patented, consists of two parallel U-shaped metal springs connected at their open rear ends by crossbars. The upper shafts of the springs carry a plate to attach to the shoe. The heel is claimed to be resilient and comfortable to wear.

Science News Letter, June 15, 1946

⚙️ **SPHERICAL ROLLER BEARING**, a new thrust type, is claimed to combine the triple features of high-load capacity, speed and low temperature. The bearing's self-aligning principle compensates for any shaft deflections and permits heavy loads to be evenly distributed.

Science News Letter, June 15, 1946

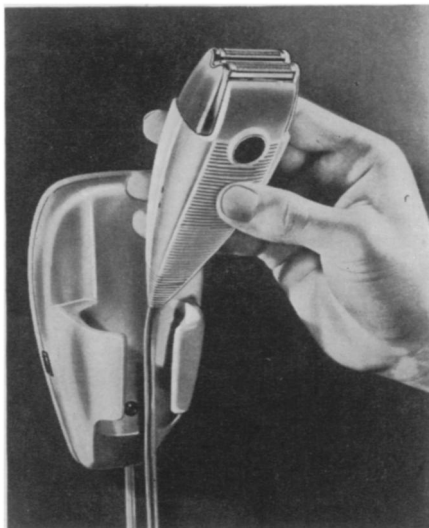
⚙️ **MAGNETIC LINKS** placed in transmission systems record the current in lightning flashes from thunder clouds. If a streak of lightning passes through the system, the link is magnetized in proportion to the highest value of the current in the lightning bolt.

Science News Letter, June 15, 1946

⚙️ **ELECTRIC CLOCKS** of three types are available to waken a sleeper. One flashes a bedside lamp, a second turns on a radio program, and a third operates a buzzer that can be modulated in loudness. The first two have buzzers also; they sound soon after the light or radio is turned on.

Science News Letter, June 15, 1946

⚙️ **PLASTIC WALL HOLDER**, for one type of electric razor, automatically reels within itself the electric cord when



the razor is put in it. When the razor is taken from the holder, shown in the picture, the electric current is automatically turned on; when the shaver is returned, the current is cut off, and the cord disappears.

Science News Letter, June 15, 1946

⚙️ **FACSIMILE** broadcasting equipment, that will print in the home by radio four standard letter-size pages of text, maps or photographs during a 15-minute broadcast, is but slightly larger than a portable typewriter. It may be attached to a radio set already in the home or built into a radio console by the manufacturer.

Science News Letter, June 15, 1946

⚙️ **GARDEN HOE**, a four-in-one tool, is a combined hoe, cultivator, rake and weed puller. It has the familiar hoe blade on one side; on the other are five broad-based, sharp-pointed teeth. Made of strong carbon steel, it is light in weight.

Science News Letter, June 15, 1946

⚙️ **HOME FREEZER**, of 240 pounds average capacity, is finished in enamel and stainless steel for installation in a modern kitchen. It maintains a temperature of zero Fahrenheit in all climates. Heat from the compressor is conducted to a defrosting tray to speed thawing out food when needed.

Science News Letter, June 15, 1946

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## BOOKS

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## Question Box

### AERONAUTICS

What is the possible speed of the Navy's "flying stovepipe"? p. 371.

What is the name of the new Army jet fighter? p. 376.

In what way does the "rainmaker" aid in safer airplane landings? p. 373.

### ARCHAEOLOGY

What became of the ancient cities when rivers changed their courses? p. 377.

### ASTRONOMY

How many people will be credited with finding the bright new comet? p. 372.

### ASTROPHYSICS

Why is it a good idea to put more windows on the south side of the house? p. 376.

### BIOLOGY

In what way does the water lily get air to its roots? p. 382.

### ELECTRONICS

In what field of peacetime research will the magnetic detector be used? p. 374.

Where published sources are used they are cited.

### FOOD TECHNOLOGY

In what country do they freeze potatoes to preserve them? p. 374.

### GENERAL SCIENCE

What are the seven blind spots yet unsolved by science? p. 373.

### HERPETOLOGY

What reptile kills the black widow spider? p. 382.

### NUTRITION

Baby food will be preserved by what method in the near future? p. 373.

What kind of diet will prevent running fits in dogs? p. 376.

### RADIO

Through what country are radio broadcasts from New York to Moscow relayed in order to avoid the magnetic storm area? p. 377.

### TELEVISION

How will the airplane help in making television programs available to people over a larger area? p. 378.

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