

# • New Machines and Gadgets •

⚙️ **SAWDUST-MAKING** machine converts all sawmill wastes into a material resembling sawdust for use as fuel in home heaters burning sawdust. The resulting pellets may be used in making alcohol and plastics with the same equipment now used in making these products from real sawdust.

*Science News Letter, October 21, 1944*

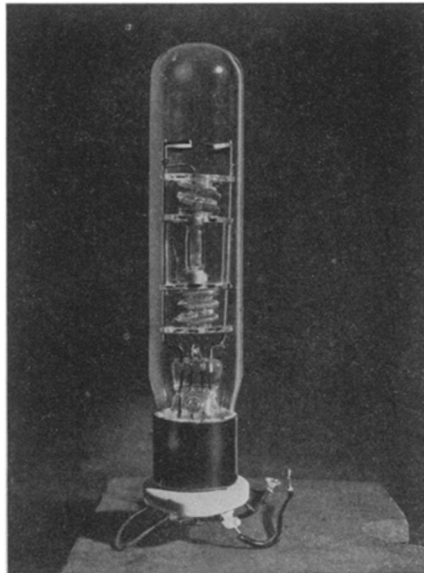
⚙️ **CHILD HOLDER**, for use in automobiles; permits the youngster to stand on the seat of a moving car without danger of falling. A strap, to pass around the child's waist, is fastened at its two ends to a pair of stiff, springy, inverted U-shaped hooks that are forced downward over the rear of the seat.

*Science News Letter, October 21, 1944*

⚙️ **COCKPIT HOODS** on airplanes, made of transparent plastics, are now blown into shape much as a soap bubble is blown. Held at its edges by a ring which controls the shape to be obtained, the heated plastic is forced by air pressure to take the shape of a teardrop, from which the canopy is cut.

*Science News Letter, October 21, 1944*

⚙️ **MERCURY ARC LAMP**, shown in the picture, is a new type that operates on 85 watts input and has specially designed heater coil to permit operation with a wide intensity range. It can be changed instantly from low to high in-



tensities or vice versa. It was designed primarily for the motion picture industry.

*Science News Letter, October 21, 1944*

⚙️ **MOSQUITO**-protection gloves, used in the U. S. Navy, permit guns and other equipment to be handled easily. They are made of a khaki-colored cotton flannel, with a hole the size of a silver dollar in each palm, and the fingers and thumbs cut off at the first knuckle to provide ventilation and digital facility.

*Science News Letter, October 21, 1944*

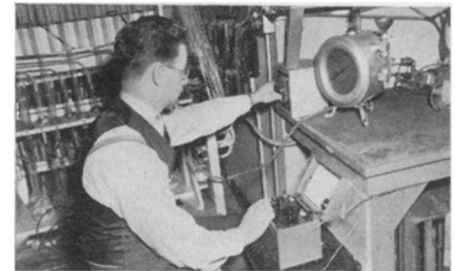
⚙️ **IMITATION** fur coats, made from the pelts of shorn sheep by a process that gives the pelts the properties of certain plastics, may become common at reasonable prices after the war. Those now made for the Army resemble beaver, but other imitations are possible. The new product is moth-proof and has excellent wearing qualities.

*Science News Letter, October 21, 1944*

⚙️ **DARNING DEVICE** for use with a sewing machine is a U-shaped wire thread holder which can be attached to the fly-wheel to wind a layer of thread. Placed over a hole in the garment, the machine needle moves backward and forward to sew the threads and cloth together.

*Science News Letter, October 21, 1944*

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 230.



## HANDY EQUIPMENT FOR TEMPERATURE CHECKS

Measuring the temperature of a leaf surface, to determine the effect of insect feeding and of spray materials, is typical of hundreds of measuring and checking studies made at Ohio State University, for which equipment like that shown above is being used. This type of equipment is preferred where the temperature to be measured is that of a point or spot accessible to the tip of a fine-wire thermocouple.

Instrument shown measuring the emf of such a couple is a Portable Millivolt Indicator No. 8657-C, which has ranges 0-16 and 16-64 mv, and thus accommodates any couple across its entire range with good sensitivity and accuracy. Its price is \$145.00, complete with galvanometer, standard cell and battery.

If you will outline your temperature-measuring problem, we will be glad to recommend a suitable equipment.

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MEASURING INSTRUMENTS · TELEMETRY · AUTOMATIC CONTROLS · HEAT-TREATING FURNACES  
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## Question Box

### AERONAUTICS

What has made it possible for handicapped persons to get a license to fly? p. 270.

### AGRICULTURE

Where is a new school of Pan American agriculture located? p. 262.

### ASTRONOMY

In what constellations should you search to rediscover Comet Berry? p. 259.

What double star is composed of two white dwarfs? p. 261.

### CHEMISTRY

How can packages be wrapped with a spray gun? p. 266.

### INVENTION

How does a new electrical vaporizer for head colds work? p. 268.

### MEDICINE

How can penicillin save babies? p. 259.

What fever chemical was recently discovered? p. 262.

What disease notion has been proved false? p. 259.

### NUTRITION

What food will be needed most by the liberated peoples of Europe? p. 263.

### PSYCHOLOGY

How may television aid in understanding the mechanism of brain activity? p. 260.

### PUBLIC HEALTH

What part do drafts play in causing colds? p. 262.

Why is a program to rebuild the mental health of trailer children necessary? p. 261.

### RADIO

How will education by radio be made simple and pleasant? p. 268.

Where published sources are used they are cited.