

• New Machines and Gadgets •

⚙️ **FINE WIRES** are brazed by a new method that gives a smooth joint and saves materials. A mixture of equal parts of filed silver and borax flux are used. The end of one wire is moistened or heated and stuck in the mixture. The two wires are then brought together and fused over a gas flame.

Science News Letter, June 16, 1945

⚙️ **RESIN ADHESIVE**, recently developed for bonding intricate wooden parts without the application of high pressure, is particularly valuable in furniture and musical instrument manufacture. This ureaformaldehyde resin is not subject to fine cracking as are many glues, and is moisture resistant.

Science News Letter, June 16, 1945

⚙️ **FLOATING** repair shops for motorized Army equipment, now in use in the Pacific area, are concrete ships nearly 270 feet in length that are towed by Naval boats to the beaches where needed. They carry supplies of replacement parts and machinery for repair work.

Science News Letter, June 16, 1945

⚙️ **DEFROSTING** frozen foods by electronic heating, using radio-frequency waves in a new kitchen unit, is a process taking minutes instead of hours as in the customary thawing method. The unit,



shown in the picture, is a "dielectric oven" in which the interior of the frozen food is heated as rapidly as the surface.

Science News Letter, June 16, 1945

⚙️ **SUCTION** clothesbrush, electrically operated in a manner similar to vacuum cleaner, has its motor, fan and dust bag all within its combined back and handle. It is little larger than the ordinary clothesbrush with wooden back.

Science News Letter, June 16, 1945

⚙️ **PHOTOGRAPHIC** lens has a built-in heating system to prevent shrinkage of its metal by low temperatures encountered at high altitude. Photographic shots taken with the four-foot lens at heights of eight miles can be enlarged into giant-sized maps that reveal details clearly.

Science News Letter, June 16, 1945

⚙️ **FOUR-WHEELED** plow, with special attachments, buries rubber-insulated telephone wire in the ground in a single economical operation. Pulled by a truck, it opens a two-foot deep furrow and refills it, burying the wire delivered to the bottom of the trench by mechanism just behind the plow.

Science News Letter, June 16, 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 263.

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