

• New Ideas and Gadgets •

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⚙️ **BOOT HANGERS**, especially useful to fishermen and hunters, hang wet boots upside down helping them last longer and lessening chances of mildew. The hanger is slipped on to the heel of the boot, which it securely grips with a tong-like action, and then is hung on a line. They are also ideal for hanging children's shoes out to dry. Galvanized to prevent rusting, the hangers are made of heavy gauge steel.

• Science News Letter, 84:368 Dec. 7, 1963

⚙️ **HEAVY DUTY FIRST AID KITS** facilitate emergency treatment by having unit-wrapped items boldly labeled and arranged for quick recognition and access. A facsimile index on the inside of the lid shows at a glance the exact location of all items and gives concise instructions for their use. The steel case has a full length hinged lid and is finished in green or gray enamel.

• Science News Letter, 84:368 Dec. 7, 1963

⚙️ **ENGINE REPAIR KIT** contains all the necessary tools such as screwdrivers, pliers and wrenches, to service small gasoline engines. Contained in a plastic case, the kit is ideal for do-it-yourself work on lawn mowers, snow blowers, outboard engines and other similar equipment.

• Science News Letter, 84:368 Dec. 7, 1963

⚙️ **TABLE CIGARETTE LIGHTER**, shown in photograph, is a Scandinavian



styled rosewood cigarette box and lighter combination. The lighter is provided with a fingertip adjustable dial for tall or short lights. The metal parts of the lighter are of stainless steel or aluminum, while the cigarette section of the unit has a satin-finished sliding aluminum cover.

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⚙️ **DEFROSTER GUN** eliminates the need to scrape ice from car windows. Plugged into the car's cigarette lighter socket, the gun quickly melts away ice, snow and sleet from the windows by spraying out a steady stream of super-heated air. The device does not damage glass, chrome or paint. The gun, provided with a long insulated cord, comes in a carrying case.

• Science News Letter, 84:368 Dec. 7, 1963

⚙️ **PORTABLE KEROSENE HEATER** useful to farmers as well as to the homeowner supplies enough heat to warm a five-room house. Operated by plugging into a 115-volt electrical outlet, the heater, which is suitable for both indoor and outdoor use, burns kerosene in a completely enclosed chamber without flame or fumes. A four-gallon tank provides 14 hours of warmth. It can also be used for melting snow and ice, thawing pipes, drying plaster and keeping young animals from freezing.

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⚙️ **LABORATORY VIEWER** with magnifier is suitable for bacterial counting, colony studies, observing hemolytic activity and other similar uses. Easily adjusted to any position, the intensity as well as the angle of light can be readily varied. Oblique or reflected light can be obtained by lowering or raising the support. Three separate background plates—clear plastic, satin black plastic, and a grid—are included.

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• Doctors Are Reading •

Cancer Heredity Theory Upset

➤ A STUDY OF CANCER in identical and fraternal twins has upset theories about cancer's being inherited, a report in the Journal of the American Medical Association, 186:749, 1963, said.

The study took place in Denmark among 6,893 sets of twins born between 1870 and 1910 and from this group scientists compared 1,528 sets of identical twins with 2,609 fraternal twins.

Figures compiled on 164 identical sets of twins in which cancer was involved showed that in 143 sets only one of the partners had cancer, while eight twins had partners with cancer of the same site and 13 had partners with cancer of a different site, Drs. Bent Harvald and Mogens Hauge of the institute of human genetics, University of Copenhagen, reported.

Among 340 fraternal sets of the same sex in which cancer was involved, it was found that in 292 sets only one of the partners had cancer while nine twins had partners with cancer of the same site and 39 had partners with cancer of a different site.

Chances of Twins Studied

Twins run in families, an article in Today's Health, Dec. 1963, pointed out. The chances of a mother having a second set of twins zoom to about five times the national average.

The world's record for multiple births is believed to be held by an Austrian woman who was reported to have had four sets of quadruplets, seven sets of triplets and 16 sets of twins.

An increase is expected in the percentage of twins in the world's population because modern medicine is saving many prematurely born twins who would have died in the past.

Allergy From Matches

If you are allergic to chromate, do not carry book matches in your pocket. Dr. Sigfrid Fregert, University of Lund, Sweden, reported in the Archives of Dermatology, 88:546, 1963, published by the American Medical Association, that an experiment with 44 persons carrying matches showed risk of skin irritation, especially if their hands were clammy.

New Pacemaker Success

A totally implantable electrical pacemaker without the outside power-connected wire leads previous pacemakers have used, was reported in JAMA, 186:754, 1963.

A small transistorized power source buried in tissue under the skin of the abdomen has connecting wires leading through a tunnel in tissue under skin to the heart muscle.

The new pacemaker was successful in maintaining heart beat in nine persons for as long as 25 months, a Washington University School of Medicine, St. Louis, team said.

The device was developed by Paul M. Zoll, Boston, and William M. Chardack, Buffalo, N. Y. It is used for heart block, a condition in which the heart is so damaged by disease that it beats irregularly.

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