

• New Machines and Gadgets •

For addresses where you can get more information on the new things described here, send a three-cent stamp to SCIENCE NEWS LETTER, 1719 N ST., Washington 6, D. C. and ask for Gadget Bulletin 556. To receive this Gadget Bulletin without special request each week, remit \$1.50 for one year's subscription.

⚙️ **MINIATURE** electronic tube is for use in television receivers when ultra-high-frequency channels come into use. This tube "beats" down the ultra-high-frequency signal by sending out its own signal which, when mixed with the UHF signal, produces a resulting lower frequency.

Science News Letter, February 10, 1951

⚙️ **TRY-ON SHOES** for children, for use in retail stores, are made of transparent plastic and permit salesmen and parents to see exactly how the shoes fit the feet. When the proper shoe is determined, exact counterparts in leather, made on the same lasts, are delivered for wear.

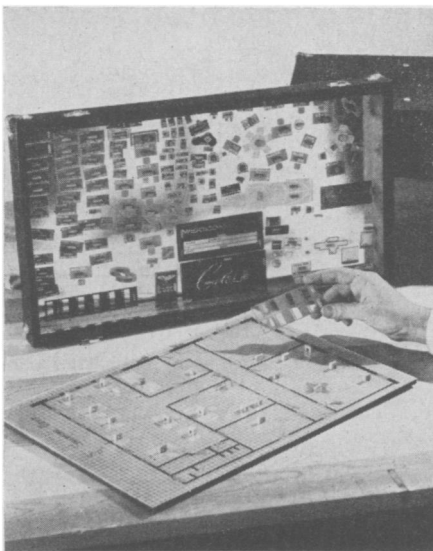
Science News Letter, February 10, 1951

⚙️ **FRACTURE** table, for use in moving an injured person from the scene of the accident, is equipped to hold the entire body motionless and to supply traction on any broken bone, including the spine. Made of duralumin, it allows patients to be X-rayed without removal from the table.

Science News Letter, February 10, 1951

⚙️ **FACE MASK** for the football player, recently patented, is an improved type with a plastic outer surface and a lining of foam rubber. With cut-outs over eyes and mouth, it has special construction to protect the nose from injury.

Science News Letter, February 10, 1951



⚙️ **FLOOR-PLAN KIT**, for amateurs planning a house, includes a transparent plastic cross-hatched sheet on which lines are drawn without ruler by following the grid. Pieces representing furniture are held in place by

magnets. Copies on sensitized paper are made with accompanying ultraviolet lamp.

Science News Letter, February 10, 1951

⚙️ **POLLEN SAMPLER**, for determining the amount of hayfever-causing pollen in the air, is a portable instrument in which air is drawn across the adhesive side of a moving tape by means of a fan. Pollen, spores and other particles caught on the tape are studied with a microscope.

Science News Letter, February 10, 1951

⚙️ **COTTON SAMPLER** diverts small amounts of cotton flowing through the gin lint flue at six periodic intervals during the ginning of a bale, packages the collections, and applies the same identification to it as given the bale. The automatic device re-sets itself for each bale ginned.

Science News Letter, February 10, 1951

⚙️ **ALL-PLASTIC** screen for the motion picture theater is made of a vinyl material resistant to creasing, mildew and flame. About eight percent of its bright white surface is occupied by tiny holes, enough to assure satisfactory sound transmission but not enough to cut picture brilliancy.

Science News Letter, February 10, 1951

Do You Know?

Rubber trees are usually first tapped for latex in their fifth year.

Uranium oxide, now important in atomic energy, was long used for coloring glass and ceramics.

A type of radiation detector used by the U. S. Navy uses alkali halides which turn blue under gamma ray exposure.

The successful operation of a municipal smoke abatement program depends upon the cooperation of industry and individual householders.

Benzene, used in making synthetic rubber, plastics and many other products, can be made synthetically from petroleum; usual source is coal tar.

At the end of four years of airplane spraying with DDT on trees on 315,000 acres in the Cape Cod area, not a single living gypsy moth was found, although the region formerly was highly infested.

ATOMIC BOMB FIRST AID

A series of pertinent, up-to-date articles, published in SCIENCE NEWS LETTER, prepared by Jane Stafford, Science Service Medical Writer, with the cooperation of the American Red Cross and other sources . . . Reprinted in 12-page pamphlet form at reader request. Subjects include:

If Atom Bomb Hits
Check Bleeding First
New Hope for the Burned
Shock and Broken Bones
Aid for Suffocation Victims
Transportation of Injured

15c each

8 for \$1.00 100 for \$7.50

Please send me _____ copies of ATOMIC BOMB FIRST AID @ 15c each, 8 for \$1, 100 for \$7.50. Mail to my address as imprinted at the right.

\$ _____ enclosed () Bill me

O. K. by initials

SCIENCE SERVICE

1719 N Street N. W. • Washington 6, D. C.

Clip and enclose this address imprint whenever you write us to renew your SCIENCE NEWS LETTER subscription, change address, order other materials, etc. It identifies you as one of the SNL family. Lower line date is expiration. Allow three weeks for address change.

2-10-51