

• New Machines and Gadgets •

⚙️ **OUTLINES** on drawings in a child's paint book help prevent the overspread of the colors by an ingenious method. The lines are printed in ink and resin is applied to the wet ink. If then heated, the lines swell or puff up, forming barriers or dams between the various sections of the drawing.

Science News Letter, April 28, 1945

⚙️ **GASPROOF PACKAGES** for food, to protect against poisonous war gases, is made of nylon heat-sealed about the package of food and coated with a polyvinyl alcohol composition. The nylon resists puncturing and protects against air; the polyvinyl against the poison gases.

Science News Letter, April 28, 1945

⚙️ **MESSAGE CONVEYOR**, by use of which messages may be dropped from airplanes day or night, consists of a tube to hold the message, a parachute which normally is folded around the tube but opens in descent, and a flashlight with battery inserted in one end of the tube for night dropping.

Science News Letter, April 28, 1945

⚙️ **CELLULOSE BANDS** that change color when heated are put around the necks of blood transfusion bottles. When the bottles are sterilized, the bands turn from green to orange, thus guarding against using unsterile bottles and the consequent wastage of blood.

Science News Letter, April 28, 1945

⚙️ **INSTRUMENT** bases and parts are now made of a new plastic developed



for the Navy, with good electrical properties and resistance to fire and shock. Instrument parts, shown in the picture, do not give off toxic fumes under high heat. The plastic contains asbestos as an inorganic filler.

Science News Letter, April 28, 1945

⚙️ **CRUTCHES** on ice will not slip if equipped with a spike and a spike-holding device that may be attached to ordinary crutches. The spike projects when pushed out by a rod extending to the gripping handle of the crutch, and is withdrawn by the same rod. The top of the rod locks in an eye.

Science News Letter, April 28, 1945

⚙️ **COMBINATION trunk and cot**, recently patented, has a four-section, foldable, canvas-covered, light-metal frame that fits into the trunk's top. When opened, the body of the trunk supports the center of the cot, the trunk's lid supports the head end, and hinged legs support the rest.

Science News Letter, April 28, 1945

⚙️ **SANDING DEVICE** for automobiles, recently patented, uses the heat of the exhaust gases in a combined muffler and sand reservoir to keep the sand warm, dry and in a flowable condition. The sand reservoir is completely surrounded with an outer chamber through which the gases flow.

Science News Letter, April 28, 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 256.

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