

• New Machines and Gadgets •

⚙️ **WATER-TIGHT**, air-tight zippers are ordinary metal slide fasteners with uniquely overlapping rubber lips which create excellent seals against any pressure. The rubber lips are placed on either side of the fastener and held by stitching or cementing. They can be applied to metal, fabric or sheet rubber.

Science News Letter, November 4, 1944

⚙️ **SCARECROW** for gardens, to protect seeds and crops from birds and mammals, is a hawk-shaped device with a wooden body, glass eyes and wings and tail of turkey feathers. Suspended from a horizontal wire stretched over the garden, it soars like a hawk in either light or heavy wind.

Science News Letter, November 4, 1944

⚙️ **SHIP-RAISING** device, newly patented, consists of a pair of double-hinged giant grapples to fit over opposite sides of the boat. Water-filled pontoons are attached above the hinges of the grapple. Air forced into the pontoons replaces the water and their buoyancy locks the grapples to the sides of the boat, then raises it.

Science News Letter, November 4, 1944

⚙️ **TAPE PRINTER**, for making cellulose numeral tape used to identify the hundreds of units going into a giant airplane, consists of a keyed wooden take-up wheel, two feed spools to hold transparent and white cellulose tape re-



spectively, a printing roll, and various guides and inking rolls. The picture shows the simple, efficient machine.

Science News Letter, November 4, 1944

⚙️ **HEAT REFLECTIVE** material, made of a textile fabric woven from plastic fibers of cellulose acetate into which fine aluminum flakes have been incorporated, may line future clothing and bed coverings to prevent the loss of body heat. A material recently developed is flexible and permits the passage of air.

Science News Letter, November 4, 1944

⚙️ **FOUNTAIN** shaving brush has a container for a soap and water mixture at its top with mechanical means of forcing a little of the mixture through the lower section, where it is electrically heated, and out into the brush itself. The bristles surround a cupshaped end adapted to massage the face and rub the lather in.

Science News Letter, November 4, 1944

⚙️ **COASTING SLED** for winter fun has runners of the conventional ski design with hand grips at their forward ends. These runners are attached to the uprights holding the body platform with hinged joints so that either may be raised over an obstacle without disturbing the other.

Science News Letter, November 4, 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 232.

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