

• New Machines and Gadgets •

⚙️ **TRAILER extension**, to give more floor space when camping, consists of a wide side door, hinged to the floor so that it may be opened out as a platform. Attached to it are an arched roof and end pieces which rest inside the trailer when the door is closed.

Science News Letter, October 20, 1945

⚙️ **TOY GUN**, which sounds like a tommy-gun, resembles the ordinary plaything, but has arc-shaped scallops near the barrel end. An attached slidable hollow handle contains a reed with a free end that jumps from one scallop to the next, making the noise.

Science News Letter, October 20, 1945

⚙️ **HAND MAGNIFIER**, with means of lighting objects under examination, is an elongated magnifying lens held in a frame with a widened base containing an electric bulb and reflector. An oblique handle, through which the electrical connection passes, is attached to the base of the frame.

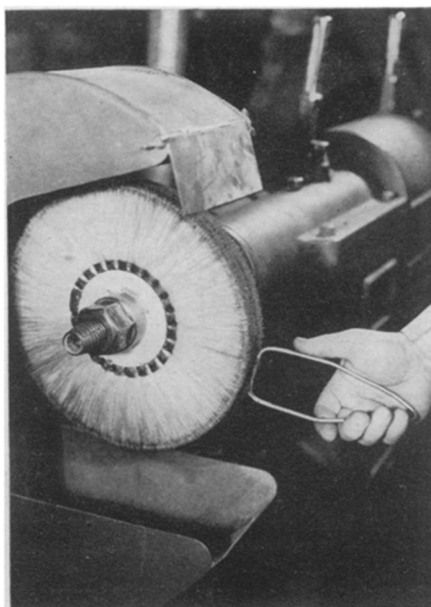
Science News Letter, October 20, 1945

⚙️ **NYLON LAYER**, thinner than the finest stocking, sandwiched between the layers of synthetic rubber that form the flexible walls of warplane fuel tanks, prevents fuel from escaping through the walls. It keeps in both high-octane liquid fuel and gas fumes.

Science News Letter, October 20, 1945

⚙️ **PORTABLE step**, to enable automobile repair men to reach the engine more easily, hangs with two hooked supporters from the front tire of the vehicle. The suspension hooks, which reach over the tire, are kept from sliding by the tread of the tire.

Science News Letter, October 20, 1945



⚙️ **HAND-MADE forceps**, for holding tiny machine parts against a brushing wheel to remove surface irregularities, were developed by a workman in a war equipment plant. The picture shows the simple device which speeds up the job and makes it easier.

Science News Letter, October 20, 1945

⚙️ **WIRE STRIPPING device**, to remove insulation from electric wires, has four blades that may be moved inward toward the center wire by pressing on the spring handle. When the insulation is cut through, this covering is removed by pulling the wire out of the device while continuing to squeeze the handle.

Science News Letter, October 20, 1945

⚙️ **DUCTS** made of fire-resistant glass fiber combined with synthetic rubber and resins are used in an Army cargo plane to carry hot air, heated by the engine exhausts, to all parts of the wings and the tail assembly to combat ice formation. These non-metallic ducts are light.

Science News Letter, October 20, 1945

⚙️ **CONTINUOUS flow fuel system** for aircraft, developed by the Army, automatically feeds gasoline to the engine as long as there is any left in the plane tanks. It is based on a simple arrangement of fuel lines and the use of a simple float operating valve; no operation by the pilot is required.

Science News Letter, October 20, 1945

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