

•New Machines and Gadgets•

⚙️ **MUZZLE** velocities of missiles shot from American guns in proving ground tests are accurately obtained by shooting magnetized projectiles through two electric coils placed an accurately measured distance apart. A small electric signal is generated as each projectile passes through each coil.

Science News Letter, September 30, 1944

⚙️ **PAINTBRUSH** cleaner consists of a frame with a flat surface against which the brush is held and a rotatable cylinder with teeth to comb the bristles in the brush. It is operated with a hand crank. The teeth, placed spirally in the cylinder, incline forwardly and are made of sharpened wire.

Science News Letter, September 30, 1944

⚙️ **ONE-MAN** hay baler, drawn and operated by a tractor, scoops up the hay already raked into a windrow with a set of forward-projecting long teeth and bales it into a cylindrical bale which falls out of the machine in the rear. The bales are easily handled and stacked.

Science News Letter, September 30, 1944

⚙️ **ELECTRIC** foot switches, used extensively in at least one large aircraft factory, control the operation of machines, leaving hands free for other purposes. The simple, dependable switch, operated by light toe pressure, is inside a



metal housing, shown in the picture, that protects both it and the toes from falling objects.

Science News Letter, September 30, 1944

⚙️ **ROTARY** shoe brushes driven by compressed air are in use in some shoe-shining parlors. These hand tools, operating like other familiar instruments worked by compressed air, are speedy

and efficient. The compressed air is also used to dust shoes and clothes.

Science News Letter, September 30, 1944

⚙️ **TRUCK** loading platform, built of wood or metal, enables trucks to be loaded or unloaded while standing parallel to the street curb. The sturdy, portable stand is pushed behind the truck during loading operations, and inside the building when not in use.

Science News Letter, September 30, 1944

⚙️ **SOCK** STRETCHER and drier is made of three pieces of stamped-out composition board, or other rustproof, moisture-proof, non-bending material, which are hinged together with lacings. When folded the device is pocket-size.

Science News Letter, September 30, 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 227.

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