

• New Machines and Gadgets •

⚙️ **POWER-DRIVEN** burners, in a self-contained unit on a two-wheel carrier, can shoot a flame from six inches to 15 feet long, the latter with a temperature of 2,000 degrees Fahrenheit. Designed for use by farmers, highway engineers and railroads, it can be used also in factory plants.

Science News Letter, February 22, 1947

⚙️ **SMALL** switching locomotive, developed in Germany, gives extra adhesion to the rails by jacks located at both ends. The end of the locomotive is driven under the end of a car to be moved, and the jack raised until the engine is carrying a considerable portion of the weight of the car.

Science News Letter, February 22, 1947

⚙️ **CLOSE-UP** attachment, for amateur movie-makers using eight- or 16-millimeter film, is a unit with one auxiliary lens and a compensating viewfinder. Easily fastened to the camera lens, the device gives accurate framing and needle-sharp focussing at distances as short as six inches.

Science News Letter, February 22, 1947

⚙️ **LIMB-LOPPER** for trimming trees has a hooked upper end to pass over the branch, and a cutting edge operated by compressed air when a push-button valve is opened. The 10-foot aluminum tool weighs less than nine pounds and will cut a limb nearly an inch thick.

Science News Letter, February 22, 1947



⚙️ **MODERN MOTOR** for shop or home, one-quarter horsepower capacity, is about one-third the size and weight of its 43-year-old ancestor. The enclosed housing of the new motor, as can be seen from the picture, protects the rotary parts from dust and grit.

Science News Letter, February 22, 1947

⚙️ **HUMAN BRAINS** and other specimens for use in physiology classes may be kept for two years in a transparent plastic wrapping, through which they are easily studied. The specimen, removed from a formaldehyde solution, is sealed within the covering; a plastic ruler beneath protects the tissue from the seal-

ing iron.

Science News Letter, February 22, 1947

⚙️ **MOTION PICTURE** camera, now electrically driven, enables tourists and others to use 16-millimeter film without having to wind up a spring. Complete with battery, the unit weighs less than six pounds. Its special lightweight battery will run at least 20 magazines of film.

Science News Letter, February 22, 1947

⚙️ **WALKING FRAME** for orthopedic patients is a stall-like affair made of tubing with casters on its four legs. The invalid walker, within the frame, grasps the upper side pieces with his hands, and carries part of his weight by adjustable crutches extending from his armpits to the frame.

Science News Letter, February 22, 1947

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