

•New Machines And Gadgets•

⚙️ **FOUNTAIN PEN**, with what is called a magic sphere point that rolls the ink on dry, can be used for some 40 hours of straight writing without refilling, it is claimed. It is reloaded with a cartridge, about 15 seconds being required. Cartridges with four different colored inks will be available.

Science News Letter, April 27, 1946

⚙️ **OXYGEN INDICATOR**, to detect and measure tiny quantities of oxygen impurities in other gases such as carbon dioxide and hydrogen, is attached to a gas line and continuously indicates in percentages on a galvanometer oxygen impurities up to one part in a million. Its hidden vital center is a precious metal catalyst.

Science News Letter, April 27, 1946

⚙️ **RECTIFIER** for converting alternating into direct current consists of a metal container inside of which a mineral element, selenium, is suspended in oil. The container is heavily tin plated and the whole unit hermetically sealed. It works efficiently in boiling water or packed in ice, it is claimed.

Science News Letter, April 27, 1946

⚙️ **PARASOL** to carry on the head instead of by hand has a headgear on its center rod in place of the ordinary ornamental handle. The head-gear fits over the head like a visored open cap; a chin strap holds it firmly in place. When the parasol is closed, the head-gear is within the folded cover.

Science News Letter, April 27, 1946



⚙️ **LINE-THROWING** gun, developed for the U. S. Merchant Marine, for life-saving, shoots a nylon line 400 yards from the reel shown in the picture. A projectile sometimes used is one with a mechanism for firing a carbon-dioxide cartridge which inflates a float upon impact with the water.

Science News Letter, April 27, 1946

⚙️ **TRUE AIR-SPEED** indicator basically consists of three separate units, air-speed indicator, altimeter and air thermometer, combined in one inter-acting assembly. The pilot merely reads the true speed on a dial, all computations being made automatically by the instrument.

Science News Letter, April 27, 1946

⚙️ **CONCENTRATED** arc lamp, whose luminescent source may be as small as 0.003 inch and 1/16 as bright as the sun, has permanent electrodes sealed into a glass bulb, filled with an inert gas. The light-source is a circular spot which forms on a specially prepared zirconium oxide cathode. It is usable for microscope-illumination, ultraviolet radiation, photographic printing and as a lenseless projector.

Science News Letter, April 27, 1946

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