

•New Machines And Gadgets•

⚙️ **WHEELBARROW** that easily passes over ordinary obstacles in its path has an extra wheel mounted in front of and above the regular wheel. The two wheels carry an endless tractor-type tread which, when it comes in contact with an obstacle, raises the front of the barrow over it.

Science News Letter, March 16, 1946

⚙️ **NONSPILLABLE inkwell** is nearly spherical in shape but remains upright because the wall of the lower part is thick and heavy. The opening through which the pen is inserted is a tube projecting inward to about the center of the sphere. If upset, this tube prevents spilling.

Science News Letter, March 16, 1946

⚙️ **RUBBER GLOVE** for household use has a solid inner layer of rubber latex and an outer layer containing many minute open pits that constitute a surface roughening for the inner layer. It is not slippery when wet, it is claimed.

Science News Letter, March 16, 1946

⚙️ **FOG DISPENSER** for lifting fogs on airfield runways, an improvement on the English "Fido," burns fuel oil instead of gasoline. The system consists of a series of burners, ignited electrically from the tower, each of which has an atomizer to prepare the fuel for complete combustion.

Science News Letter, March 16, 1946

⚙️ **PLASTIC "LUNG"** for artificial respiration weighs only 60 pounds, about one-eighth the weight of standard iron lungs, permitting a patient to sit up, or perhaps walk or drive. The picture shows



its application to a bed patient. The unit is convenient for lifesaving stations and small hospitals. Photograph from Ziff-Davis.

Science News Letter, March 16, 1946

⚙️ **"ELECTRIC HAND"** is the key to a so-called electronic myodynamometer to measure the extent of muscle impairment and recovery in infantile paralysis cases. The "hand," which, in use, is pressed against the muscle, contains a delicate wire strain gauge whose electrical resistance changes as it is stretched.

Science News Letter, March 16, 1946

⚙️ **SYNTHETIC RUBBER HOSE** reinforced with Fiberglas inner braid is found satisfactory for carrying hot plastic

paint at a temperature of 300 degrees Fahrenheit to spray nozzles used in painting ship hulls. The hose has the tensile strength and heat-resisting qualities required.

Science News Letter, March 16, 1946

⚙️ **CALCULATING DEVICE**, composed of three concentric celluloid printed disks which can be rotated on the same center, is used to determine the amount of radiation required for steam and hot water heating systems. When the disks are properly set, printed figures on them give the answer.

Science News Letter, March 16, 1946

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 302.

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