

• New Ideas and Gadgets •

Ask for Gadget Bulletin 1365 for source information. Send self-addressed, stamped envelope to SCIENCE NEWS, 1719 N St., N.W., Washington, D.C. 20036.

⚙️ **TIME ZONE CLOCK** has a dial that is divided into 24 hours, with a.m. hours in red and p.m. hours in black. Designed to be powered with a one-year or two-year battery, the clock shows all 24 time zones and the international code symbol of each. The names of two principal cities are given in each zone. When the clock is accurately set to the local time, the correct time in each of the other 23 zones is automatically shown.

⚙️ **PALM LOOM** provides an easy way for making rugs, pads, coasters, belts, rosettes and other items from left-over materials. The cloth strips are just wound up in the loom and sewn together by hand. Colorful, original scatter rugs can be made with remnant materials.

⚙️ **REAGENT DISPENSER** pipettes microliter quantities of liquid reagents accurately by a press of a plunger. The volume of solution to be delivered is set on a micrometer type of dial at the top of the dispenser. Timesaving, the all plastic unit eliminates the need for washing and rinsing pipettes after each use. Several sizes varying from 1 to 250 microliters are available.



⚙️ **LABEL DISPENSER**, shown in photograph, for pressure sensitive adhesive labels helps increase speed of work output. The unit which dispenses labels semi-automatically is operated with one hand leaving the other free to prepare the work to be labeled. The paper lined with labels is wound on a take-up drum and is dispensed into the hand by rotating a handle.

⚙️ **ELECTRIC ENGRAVER** makes engraving simple and easy. The unit which handles like a pencil comes with a solid carbide point for marking permanently glassware, jewelry or metal. Useful for personalizing tools, cameras, sports equipment and other possessions, the engraver has a calibrated stroke adjustment and is housed in nylon.

⚙️ **TIRE REPAIR GUN** allows punctured tubeless tires on buses, construction equipment, trucks as well as on passenger cars to be repaired on the rim in minutes. Suitable for tires up to 10-ply construction, the gun repairs punctures by injecting a flared rubber plug into the tire to make a permanent seal. The repair kit includes plugs, plastic guide tips, cement and plug cutter.

⚙️ **WATER ANALYSIS METER** is a portable, direct reading test meter that can be held in the palm of the hand. Useful for making important frequently performed water tests, the meter is especially designed for process control and water treatment applications. Results of tests for chlorine, chromate, iron, phosphate, silica, manganese, ammonia and various pH ranges can be easily read from the meter dial.

• Doctors Are Reading •

LSD Detected in Sugar Cubes

➤ A SENSITIVE method for detecting LSD in sugar cubes was reported by two members of the Canadian Food and Drug Directorate.

Drs. Czelsawa Radecka and Ishwar C. Nigam said the method will identify LSD doses as small as 50 micrograms, comparable to one or two flakes of bath powder. The dose usually taken is four times that amount.

As described in the *Journal of Pharmaceutical Sciences*, 55:861, 1966, the new method dissolves the cubes and hydrogenates the extract. A process known as thin-layer chromatography will then clearly identify the presence of LSD, said the Canadians.

The detection method is another step toward control of illicit use of LSD.

Use of Cobalt in Beer Forbidden

➤ A SUBSTANCE that prevents beer from foaming over the edge of the glass is no longer being used because it is suspected of causing the mysterious beer-drinkers' heart disease first reported in Quebec.

Brewers who have been using traces of cobalt to give their beer a more stable "head" voluntarily ordered the procedure stopped, and the U.S. Food and Drug Administration has recommended revocation of the 1963 regulation permitting cobalt in fermented malt beverages.

Although cobalt has not been proved responsible for illness and death in beer drinkers, it is one of several

factors under investigation.

Sixteen heavy beer drinkers in Omaha, Nebr., and one in Minneapolis, Minn., have been reported dying of myocardial, or heart muscle, disease similar to that which killed 20 in Quebec, said a report in the *Journal of the American Medical Association*, 275:, 1966.

In both Quebec and Omaha the typical patient was a man in his early 40s who had been drinking from 100 to 200 ounces of beer daily for at least five years.

Dieters—Eat Strictly From Hunger

➤ ANYONE who is trying to lose weight on a certain number of calories per day, will probably have better success if he times his eating for periods of peak hunger, a Harvard nutritionist advised.

In some cases this may mean eliminating "meals" and substituting more "snacks," Dr. Jean Mayer reported in *Nutrition Today*, 1:2, 1966.

A careful distinction should be made between patients who overeat regardless of whether or not they are hungry and those who overeat or cannot stick to a reducing diet because of severe hunger pangs.

A good reducing diet, or any good dietary plan, is one that does not make a person too hungry.

There are great variations in the timing and sequence of hunger sensations between different age groups, sexes and individuals. The influences of mood, degrees of desire for food and preoccupation with thoughts of eating can all influence the time of hunger, Dr. Mayer said.