

Current U.S. Patents

► A FREEZING method for making salty water fresh enough to drink has been granted a patent by the U.S. Patent Office.

The freeze-crystallization method is now being tested in two pilot plants at the U.S. Department of Interior's Test Station at Wrightsville Beach, N.C., one of which produces 15,000 gallons a day and the other, 200,000 gallons. Several different processes for desalting water are being investigated at the North Carolina station, which is operated by Interior's Office of Saline Water.

Sea water begins to freeze at 28.4 degrees F., and the ice crystals that then form are essentially salt free. The method earning patent 3,266,264 covers a process for freezing saline water in such a way the ice crystals are sufficiently large that they can be easily separated from the remaining brine, drinkable water is then prepared from the crystals.

Dr. Hans Svano of North Warren, Pa., assigned patent rights to Struthers Scientific and International Corporation, New York. The method could be used in any freeze-crystallization process for making potable water from salty or briny water.

Car-Crushing Machine

To help in the beautification program, either to keep or make America beautiful, Allen B. Sharp and Richard A. Hull of Ottumwa, Iowa, have devised an apparatus for crushing and flattening junked automobiles.

The machine is sufficiently compact that it can be moved to used car

dumps over public roads on a truck. It crushes the cars in an hydraulically operated jaw so that the flattened car is about six inches high and substantially the same length as it was originally.

Mr. Sharp and Mr. Hull assigned rights to patent 3,266,413 to Al-Jon, Inc., Ottumwa.

Other Interesting Patents

A nose fairing that stabilizes air-to-underwater missiles while attached to an aircraft, when flying through the air and when entering the water earned patent 3,266,420 for Rudolph G. Schuetzler of Adelphi, Md. The nose fairings are now on order for operational use by the Government, to which Mr. Schuetzler assigned patent rights through the U.S. Navy.

A new compound that helps to prevent dental cavities when added to toothpastes, mouthwashes or other topical solutions for the mouth was granted patent 3,266,867. Dr. Joseph C. Muhler of Indianapolis, Ind., assigned patent rights to stannous fluorozirconate, a compound containing tin, fluorine and zirconium that is "highly effective as an anticaries agent," to Indiana University Foundation, Bloomington.

Dr. Gerald E. Kron of the University of California's Lick Observatory, Mt. Hamilton, was awarded patent 3,266,505 for a valve other astronomers will find helpful when they are using ultra-high vacuums to make photographs of stars. He assigned rights to the all-metal valve, which can be baked at high temperatures, to the Government through the Secretary of the Navy.

To prevent shoplifting in clothing stores, John O. Weddle of Alexandria, Va., has devised a bracelet that locks the garment hanger to the supporting rod. The bracelet can be unlocked only by authorized personnel, he stated in patent 3,266,684.

An improved system for using sound waves to detect the thickness of overhead ice from submarines earned patent 3,267,416 for Leighton L. Morse of San Diego, Calif., who assigned rights to the Government through the Secretary of the Navy.

A way of recording video signals on a film strip so that they can be reproduced later was awarded patent 3,267,212. Dr. Peter C. Goldmark, director of research for CBS Laboratories, Stamford, Conn., and Renville H. McMann Jr., assigned rights to Columbia Broadcasting System, Inc., New York, N.Y.

To eliminate the possibility of injury when a child is sucking on a lollipop, Harry E. Davis of Akron, Ohio, invented a safety lollipop, for which he was granted patent 3,264,115. The handle is made of rolled cellophane with a weakened area just below the candy that bends when even slight pressure is applied.

Hunt caps can now be covered with any desired material, yet still be stripped down to the regulation black required for horse shows, thanks to the invention of Dorothy M. Young of Silver Spring, Md., who received patent 3,263,235 for a "readily removable decorative cover." The material is fastened temporarily over the black by pressing together sheets of Velcro.

NAVIGATION

Navy Operates Satellites For Locating Islands

► THE U.S. NAVY is now operating a map makers' satellite system for fixing the positions of isolated islands and other sites within 25 yards or less.

The system was developed by Johns Hopkins University's Applied Physics Laboratory, Silver Spring, Md., in association with the Navy navigation satellite system now used operationally by the fleet.

Experimental work with the new mapping system has made it possible to establish precisely located survey point used in map making.

**Small
Powerful
ELECTRIC MOTOR**

\$1.75



Brand-new motors—mfg. by ALLIANCE ELEC. CO.—approx. 2 1/2" x 3" x 2" 3/16" shaft, 110V. AC. PERFECT FOR SCIENCE PROJECTS. While they last \$1.75 ea. plus 20¢ postage. Write for booklet "Experiments in Electrostatics"—50¢. Free catalog of other low-priced science equipment. Enclose 15¢ for postage. 1685 Elmwood Avenue. Dept. SN 9A66. Buffalo, N.Y. 14207.

MORRIS and LEE

LIVE SEAHORSES

Order LIVE MATED SEAHORSES sent Air Mail postpaid from Fla. All orders receive a kit with FREE food, our catalog and simple instructions for raising these aquatic little pets in a jar, fish bowl or aquarium. The Father (male) Seahorse gives birth to the young alive. The Educational, Relaxing, and Enjoyable hobby with hours of fun for all the family.

GUARANTEED LIVE DELIVERY.

ONE PAIR \$2.25—THREE PAIR SPECIAL \$4.00—Order TWO PAIR and receive (5) ONE PAIR FREE. (One address please)

F. F. MARINE LIFE

P.O. Box 248-SL-67, Dania, Fla. 33004



GRAPHIC VISUAL CONTROL



You Get Things Done Better And Faster

The BOARDMASTER saves time, cuts costs and prevents errors. You see what is happening. Shows facts at eye level. For Production, Scheduling, Inventory, Sales, Traffic, Etc.

Simple to operate. Write on cards, post on board. Fully flexible. Million in use. Price \$49.50 with cards.

FREE

24 Page BOOKLET No. V-10
Mailed Without Obligation

GRAPHIC SYSTEMS, Box 398, Yanceyville, N.C.