INVENTION

# Current U.S. Patents

Radioactive strontium and cesium can be removed from milk by a new process if fallout from atomic bombs produces a health hazard—By Ann Ewing

➤ A METHOD by which the radioactive strontium and cesium in milk can be removed if fallout from atomic bombs makes it a health hazard has been patented.

The method, which received patent 3,207,607, was originated by Dr. Bert B. Migicovsky, now assistant director-general of the research branch of Canada's Department of Agriculture. After modification and development by an international team of scientists, it was tested commercially by the Producers Creamery Company in Lebanon,

This process removes 90% of the radioactive strontium.

The Missouri equipment, which processes 100,000 pounds of milk in an eight-hour period, is now being modified to remove radioactive iodine as well as radiostrontium and radiocesium from milk. The system being used at Lebanon was developed jointly by the U.S. Department of Agriculture, the Department of Health, Education, and Welfare and the Atomic Energy Commission.

The treatment consists of pumping slightly acidified milk through ion exchange resins that have been precharged with mineral salts similar in composition to the salts found in milk.

Radioactive strontium and cesium in the milk are exchanged with the anions or cations on the charged resins and removed subsequently by washing with salt solution. After the milk's acidity is neutralized, it is pasteurized and homogenized as usual.

The milk which results from this has an acceptable flavor and meets bacteriological standards.

Dr. Migicovsky told Science Service that the method for acidifying the milk has been granted a separate patent, to be assigned to the U.S. Government. He assigned his rights to patent 3,207,607 to the Canadian Government.

### Suction Device for Midwives

A simple suction device that midwives can use earned patent 3,207,160 for Dr. Ockert S. Heyns of the Medical School, Johannesburg, Transvaal, Republic of South

The forceps or suction cups often used for aiding complicated births are so po-tentially dangerous that most countries forbid their use by anyone other than an obstetrician.

The instrument devised by Dr. Heyns is portable and can be used easily by unskilled or semi-skilled persons. It consists of a chamber whose rim totally encloses the pelvic opening, resting on the coccyx and the pubic arch.

A pump reduces the air pressure within the chamber, which aids in birth. The chamber's shape, which fits women of varying sizes, is the key to helping parturition.

## **Other Interesting Patents**

A tamper-proof container for hypodermic syringes that may be opened easily for removal of one syringe without disturbing the sterile packaging earned patent 3,207,302 for Norman L. Hobbs of Rosemont, Pa., who assigned rights to American Home Products Corporation, New York.

A piece of furniture to be used in space vehicles, a combined bed, chair, desk and lounge, was awarded patent 3,206,775. George W. Filson of Xenia, Ohio, assigned patent rights to the Government through the Secretary of the Air Force.

A method of making diamond particles by subjecting graphite or amorphous carbon to the high temperature and pressure resulting from spark discharges between electrodes earned patent 3,207,582 for Kiyoshi Inoue of Tokyo, Japan.

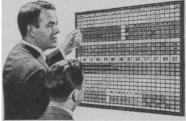
A necktie with a hidden pocket in which money or other valuables can be hidden, earned patent 3,206,765 for Sol Sherman of New York, who devised the zippered pocket for the reverse side of a four-in-hand

• Science News Letter, 88:239 October 9, 1965

# INVENTORS MEEDED

If you have an invention you wish to sell outright or license on royalty, write us at once. We are seeking inventions of household items, games, toys, sports items, tools, and mechanical and technical devices. Patented or unpatented. For further information and free brochure outlining manufacturers' requirements, royalty rates, send name (no drawings, please) on letter or postcard at once. KESSLER SALES CORP., Dept. D-4110, Fremont, Ohio 43420

# **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, Sched-uling, 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.

#### SURPLUS 99<sup>c</sup>each SATELLITE **BATTERIES**



These Government surplus storage battery cells are nickel-cadmium sintered plate type used in satellites and missiles due to characteristics not possessed by any other battery, ie: Lifetime service, constant voltage during discharge, extreme temperature ranges, discharges in any position, compact, high discharge rates (up to 25 times ampere hour capacity), no corrosive fumes, not harmed by storage, overcharging and freezing.

CELLS ARE 1.25 V. EA. REGARD-LESS OF TYPE. Replace with these cells to operate any equipment using dry or wet batteries where porta-bility, dependability, and ruggedness are requisites. Select cells from list to best fit application.

#### NICKEL-CADMIUM PLASTIC CASED CELLS:

					(N) New (U) Used			
Esse	Ampere	Dimer		Inches	Wt.	Condi-		
Type	Hours	Height	Width	Depth	Ozs.	tion	Price	
AH4	4.6	6.00	2.00	.5	6	U *	\$ .99	
AH4C	4-6	6.00	2.00	. 5	6	U	1.49	
AH4R	4-6	6.00	2.00	. 5	6	N	1.95	
AH6	6-10	4.00	2.12	.937	8	N	4.95	
AH2ON	20.30	8.12	3.12	1.06	40	U.	4.95	
AH34N	30-40	9.38	3.12	1.38	52	U	9.95	
AH60N	60-80	11.25	5.00	1.38	104	Ū	14.95	

Types ending in 'N' are nylon cased; others are acrylic plastic.

### NICKEL-CADMIUM STEEL CASED CELLS:

Type M.30, size 8.875 x 3 x 1.750, Wt. 31/2 lbs. 30 AH. Used\* \$2.95, New \$5.95 per cell.
Aircraft 28 V. Battery made up with 20 of these cells—Used\* \$50, New \$125. Overall size 10" x 10". Wt. approx. 60 lbs.

#### IRON-NICKEL:

Type 8-4 Edison. 30 AH. 6 V. battery of 5 cells in hardwood rack, used—\$28. Overall size approx. 18" x 10" x 6". Approx. wt. 50 lbs.
CHARGER FOR 6 V. OR 12 V. BATTERIES. Charges at 1 amp. rate which is ideal for all types of cells above or auto batteries—\$4.99 ea.

Guarantee: All cells are guaranteed for satisfaction or your money back except cells marked with an asterisk \*) which are sent as received from used Government stocks and are not checked before shipping.

## SEND FOR FREE PAMPHLET **ESSE RADIO COMPANY**

368 S. Meridian St., Indianapolis, Indiana 46225



All DYNASCOPES, including this superb RV-6, 6-inch available on easy terms!

0 Now it's easy to join the thousands of serious amateurs who have discovered the excitement of exploring our mysterious universe. Your enjoyment begins right from the start, yet the challenges and rewards go on for years! And it's a hobby that can be shared at modest cost.

\$194 95

# Choose from a Full Range Of DYNASCOPES® 4" Starting at \$49.95

Picking a telescope to fit your needs and your pocketbook is simple when you select a DYNASCOPE — the same instruments used by more than 150 schools, colleges and observ-atories. Prices begin as low as \$49.95, and your satisfaction is guaranteed by a fullrefund warranty.

FASCINATING GUIDE YOURS FREE!
Read these valuable facts before buying any telescope. Mail coupon or postcard for your complimentary copy of this helpful guide.

Criterion Manufacturing Co. 331 Church St., Hartford 1, Conn.

® TM Registered U.S. Pat. Office

1					_		
	RION MAN						
Dept.	NL-71, 33	1 Church	St., Ha	artford	1,	Conr	
Please	send you	r free To	elescop	e Guide	Э.		
Name							-
Addres	S S						
				State			