

### Tiny Electrode Locates Causes Of Heartburn

Los Angeles—(Science Service) — A severe, chronic form of heartburn, which sometimes mimics heart disease and ulcers, is being diagnosed by a tiny electrode introduced into the esophagus.

The research is being done by Drs. Steward G. Tuttle and Morton I. Grossman of the Los Angeles Veterans Administration Center and the University of California, Los Angeles, Medical Center.

The electrode is passed via the nasal passage into the esophagus to a point just above where the esophagus joins the stomach. The sensitive electrode detects minute changes in the acid balance in the esophagus. Pressures in the esophagus are recorded simultaneously.

**Increase in Acidity**  
Episodes of heartburn have been correlated directly with increases in esophageal acidity. These begin with a slight increase in acidity and diminish as acidity decreases.

Thus heartburn appears to be associated with regurgitation. No correlation between heartburn and pressure changes in the esophagus was observed.

In additional studies with patients with severe, chronic heartburn, known as esophagitis, tiny amounts of hydrochloric (stomach) acid were dripped into the esophagus.

**Heartburn Produced**  
In such patients heartburn was immediately produced. In patients without esophagitis the acid-drip procedure produced no heartburn. Apparently a sensitivity of the esophagus, perhaps induced by frequent regurgitation, is involved in esophagitis, the investigators said.

The two procedures have proved valuable in diagnosing the disorder in cases in which X-ray studies and clinical observations had not established its presence. Some of these cases had symptoms of angina pectoris and peptic ulcer, which were ruled out with the aid of the new procedure.

### Available Drugs Said Capable of Eliminating TB

New York — (Science Service) — The drugs medical science now uses to fight tuberculosis are capable of completely eliminating that disease in this country.

This fact is at the core of a plan to speed up the campaign against tuberculosis announced by Dr. H. McLeod Riggins, president of the National Tuberculosis Association and clinical professor of medicine at Columbia University here.

Essentially, the plan is to use available antituberculosis drugs to eliminate all sources of tuberculosis infection by the adequate treatment of every person with active tuberculosis, and also selected persons with inactive disease.

**Active Campaign Asked**  
Dr. Riggins called for an active campaign to locate every person with active tuberculosis and insure his treatment with a drug or combination of drugs known to be effective against this communicable disease. Thus, since the disease is spread from person to person, the chain of infection will be broken and eventually tuberculosis can be eliminated.

The NTA estimates there are at least 250,000 active cases of tuberculosis in the U.S. today. Of these, 100,000 are not known to health departments. An additional 150,000 Americans are believed to carry the disease in an inactive form.

Drugs now used to fight tuberculosis include isoniazid, streptomycin and PAS, p-aminosalicylic acid.

### Truck Driver Picks Poor Place to Weave

Chicago — Truck driver Lewis Strong was fined for weaving in and out of a funeral procession.

It was a policeman's funeral and more than 40 members of the force were on hand to take Strong's license number.

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Ideal household brooms in red, green or natural. Stock up now... buy one of each color.  
Regular \$1.59

- |                         |                |        |
|-------------------------|----------------|--------|
| <b>Comet Cleanser</b>   | Large size tin | 25c    |
| <b>Mr. Clean</b>        | 28-oz. bottle  | 75c    |
| <b>Spic &amp; Span</b>  | Giant package  | 95c    |
| <b>Dreft or Oxydol</b>  | Giant package  | 87c    |
| <b>Tide, Duz, Cheer</b> | Giant package  | 87c    |
| <b>Ivory Flakes</b>     | Giant package  | 87c    |
| <b>Ivory Snow</b>       | Giant package  | 87c    |
| <b>Dash Detergent</b>   | 10-lb. package | \$2.59 |
| <b>Liquid Joy</b>       | 22-oz. tin     | 73c    |
| <b>Cascade</b>          | 20-oz. package | 49c    |
| <b>Lava Hand Soap</b>   | 2 Med. bars    | 27c    |
| <b>Zest Bath Soap</b>   | 2 bath bars    | 45c    |
| <b>Personal Ivory</b>   | 4 bars         | 29c    |
| <b>Medium Ivory</b>     | 3 bars         | 35c    |
| <b>Large Ivory</b>      | 2 bars         | 35c    |

# Old Fashioned SPRING CLEANING

is for the **BIRDS!**



- |                                       |               |     |  |              |     |
|---------------------------------------|---------------|-----|--|--------------|-----|
| <b>Aluminum Cleaner</b> Alumi-Glo     | 10-oz. tin    | 39c | <b>One-Wipe Dust Cloths</b>                | each         | 69c |
| <b>Copper Cleaner</b> Copper-Glo      | 10-oz. tin    | 39c | <b>Liquid Ammonia</b> Klanz Foamy          | Quart bottle | 25c |
| <b>Oven Clean</b> Easy-Off With Brush | 16-oz. bottle | 98c | <b>Floor Wax</b> Simoniz Vinyl             | qt.          | 89c |
| <b>Bon Ami Jet Spray</b>              | tin           | 59c | <b>Ivalon Sponges</b> Thrifty pak of three |              | 35c |
| <b>Sal Soda</b> Arm and Hammer        | 2 1-lb. pks.  | 29c | <b>Jumbo Sponges</b> Ivalon                | each         | 49c |

**Klantz Controlled Suds**  
For automatic washers... a new product.  
10-lb. package **\$1.98**

**White Star TUNA**  
Chunk style... No. 1/2 tin 29c  
**4 No. 1/2 tins 85c**

- |                     |   |               |             |
|---------------------|---|---------------|-------------|
| <b>Gelatin</b>      | Royal... assorted flavors. Royal is fortified with Vitamin C. | 9 packages    | <b>59c</b>  |
| <b>Swift's Prem</b> | Luncheon Meat   | 2 12-oz. tins | <b>79c</b>  |
| <b>Oranges</b>      | Pacific Pearl or Spruce mandarin oranges... regular 23c each. | 6 11-oz. tins | <b>\$1.</b> |
| <b>Wag Dog Food</b> |   | 15 fall tins  | <b>\$1.</b> |

**Piggly Wiggly Fresh Produce**

CALIFORNIA NAVEL **ORANGES**

Large 72 Size **59c** Doz.  
Medium 138 Size **39c** Doz.

Small, Fresh Tender **ASPARAGUS** 2 lbs. **45c**

Fresh Daily, Local Pack **SALAD MIX** 2 pks. **29c**

Fresh, California **DATES** 2-lb. pkg. Unpitted **55c**  
1 1/2-lb. pkg. Pitted

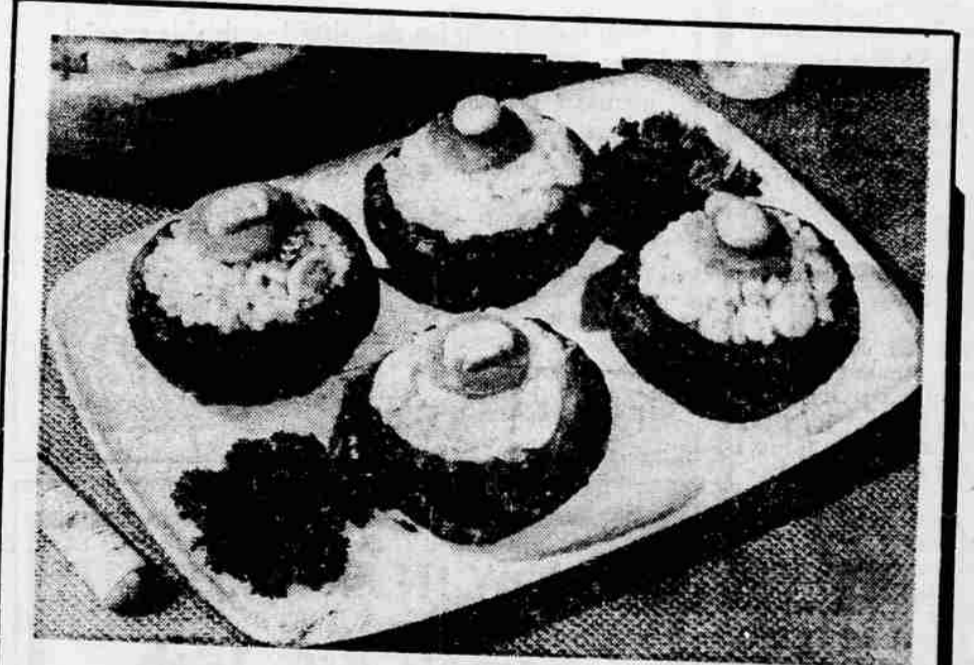
U.S. No. 2 Klamath Gem **POTATOES** 25 lb. cello bag **1.19**

**Hi West Frozen Strawberries** 6 pks. **\$1.00**  
10-oz. Pkg. 21c

Marjorette **Egg Noodles** Make a casserole dish for a Lenten meal.  
Large 24-oz. **35c**  
Family pak **2 pks. 69c**

Pure, Light **Snowdrift** The Wesson Oil Shortening  
3-lb. tin **69c**

- Bathroom Tissue** Zee 4-roll pak **39c**  
**Bathroom Tissue** Chiffon 2-roll pak **29c**  
**Snowflake Crackers** Nabisco 2-lb. pkg. **49c**  
**Ginger Snaps** Nabisco Old-Fashioned. 1-lb. pkg. **39c**



**Ground Beef** 39c lb.  
Looking for something different... serve "Heavenly Burger Baskets" as illustrated. Shape ground beef into baskets and broil until meat is browned. Fill with corn, mushrooms and chopped onions.  
3-lb. package \$1.15

- Beef Short Ribs** Fancy, lean lb. **39c**  
**Jumbo Bologna** Armour Star, By the piece lb. **39c**  
**Polish Rings** Armour Star. 10-oz. ring ea. **39c**  
**Minced Ham** Armour Star Sliced. lb. **59c**  
**Fresh Crabs** From the Pacific lb. **39c**
- Swift's Butterball Young Turkeys**  
For roasting or rotisserie cooking  
4-5 lb. avg. each **\$2.49**

- Maypo OAT CEREAL** 14-oz. pkg. 35c  
2 pks. **69c**
- Cranberry Sauce** Ocean Spray... the natural mate for any meat.  
5 16-oz. tins **\$1.00**

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