

4 B
Inaudible Sounds
Relieve Pain In
Amputee's Stump

Washington—(Science Service)—Ultrasonics—sounds that cannot be heard by the human ear—can heal wounds, clear up infected sinuses, relieve arthritic pain and treat acute asthma. They even have been used with success in an Army hospital to relieve pain arising from amputations, scars and neuromas.

These medically beneficial sounds are produced by the same type of mechanical vibration that produces the familiar sounds of the boom of a cannon, the ringing of a telephone, or the hum of the human voice. The difference is that the familiar sounds are heard by the ear, while the ultrasonic vibrations are heard only by the instruments used to produce them.

Years ago medical ultrasonic equipment has been used in the clinical use of one million cycles (one megacycle). Sonic energy at one megacycle has some of the characteristics of light—it will be reflected or refracted. It can penetrate even more than light in that it can travel through solids and liquids.

However, an important feature of medical ultrasonic energy is that it will not pass through air. Therefore, to be used with the most benefit in healing, it must be applied by means of a transducer directly to the surface of the skin of the area to be treated.

Areas too sensitive to permit direct application of the transducer are submerged in water. Then the treatment can be given without any possibility of contact that might cause pain to the patient, because of the ability of the energy to pass through water.

At the second International Conference of Ultrasonics in Medicine held here, Dr. Carlos Bustamante of Lima, Peru, also endorsed the effectiveness of ultrasonics in relieving pain. "We now know exactly the mechanism by which pain is reduced or disappears," he said. "We have its action is indirect." While the exact mechanism of this tool is not understood, much progress has been made in establishing "when, how often and with what intensities and frequencies ultrasonic radiation should be used for various conditions." Dr. John H. Aldes, Los Angeles, and also executive secretary to the conference and a pioneer in medical ultrasonics, told Science Service.

Dr. Carlos Bustamante of Lima, Peru, also endorsed the effectiveness of ultrasonics in relieving pain. "We now know exactly the mechanism by which pain is reduced or disappears," he said. "We have its action is indirect." While the exact mechanism of this tool is not understood, much progress has been made in establishing "when, how often and with what intensities and frequencies ultrasonic radiation should be used for various conditions." Dr. John H. Aldes, Los Angeles, and also executive secretary to the conference and a pioneer in medical ultrasonics, told Science Service.

He predicted that ultrasonics would soon take its rightful place in the clinical practice of medicine.

Appleton Machine Company Purchased

Corvallis—The Appleton Machine Works, Inc., of Corvallis has been acquired by the 77-year-old Appleton Machine Co., of Appleton, Wis., spokesman for the two firms said today. Change of ownership is effective Thursday, Sept. 1.

Milton H. Mater, president of the local firm, and Tany Agronin, president of Appleton, signed the papers Tuesday in Portland. Price was not disclosed.

The transaction involves Mater's manufacturing, sales and engineering, but no machinery or real estate in Corvallis. The Corvallis operation will be known as the Mater division of Appleton and will continue sales and engineering. Mater will be vice president of the new division.

Mechanical Friend
Built by Youngster

Union, N.J.—Alan Moskowitz' best friend has a heart of tin. He's a robot the 12-year-old boy built himself.

The mechanical pal has eyes, that light up, a bell-and-buzzer brain, a loudspeaker mouth and door-knob ears. Alan, an honor student, spent a year making the robot and claims it can do everything but walk.



MEDFORD'S
Compact
SHOPPING
CENTER



WE GIVE
We Redeem
SILVER
DOLLAR STAMPS



COMPLETE
Shopping
UNDER
ONE ROOF



Five Holiday Foods
...ALL READY TO GO ON YOUR PICNIC



Make it the gayest event of the season



OAKDALE BIG Y 11th and Oakdale

BIG Y SUPER 9th and 99 North
MEDFORD'S Compact SHOPPING CENTER

A whole store full of fine foods are just waiting to go on your outing. Whether it's a picnic, a cook-out, or a long-week-end at the lake, it will take lots of fine foods to satisfy those sharpened appetites. Big Y is the place to buy those fun-filled foods for less. It's the last big outing for most of us, so let's make it the gayest event of the season.

For a Long and Happy Week-end
YOU'LL BE NEEDING EVERY ONE OF THESE

- MAYONNAISE Big Y Fresh qt. 47¢
- MALLET'S TANG
- SALAD DRESSING 2 qt. 89¢
- HAWAIIAN PUNCH 3 48-oz. cans \$1.00
- ICE CREAM Jorgensen's Rogue Maid 1/2 Gal 59¢

WATERMELONS
RED RIPE—SWEET JUICY

Average Weight Over 20 lbs. 35¢ Ea.

PLANNING A BIG OUTING
3 MELONS \$1.00

MAKE IT A Sociable WEEKEND FREE!

100 SILVER DOLLAR STAMPS WITH EACH 6 PAK CARTON OF Pepsi-Cola
FREE Sampling Friday and Saturday



The Most Inviting Produce in Town
INVITES YOU TO JOIN THEM IN A PICNIC

- SUNKIST—JUICE
- ORANGES 4 doz. \$1.00
- SUNKIST GRAPEFRUIT 10 for \$1.00
- NECTARINES Plump Sweet Juicy lb. 19¢
- IDAHO—NO. 2 POTATOES 10 lb. bag 37¢

HOLIDAY FARE FOR YOUR PET

- CHUBBY Dog Food 18 No. 1 cans \$1.00
- FRISKIES Cubes or Meal 20-lb. Bag \$1.89

Pickles, Olives, Relishes

- WYANDOTTE SELECT PITTED RIPE OLIVES 4 5 1/2-oz. cans 89¢

- DILL PICKLES Del Monte 22-oz. Jar 33¢
- SWEET PICKLES Del Monte 22-oz. Jar 49¢
- SWEET RELISH Nalley 11-oz. Jar 29¢
- HOT DOG RELISH Nalley 11-oz. Jar 29¢
- MUSTARD French's—6-oz. Jar 7¢

Bread, Rolls, Buns

- FOR FINE SANDWICHES SPRUCE
- SOLID PACK TUNA NO OIL ADDED 4 No. 1/2 cans 89¢
 - FANCY LITE MEAT 4 No. 1/2 cans 89¢

FROM OUR FRESH BAKERY DEPT.

COMBINATION SPECIAL!

Glazed Apple Sauce Cake Donuts 1 Doz. Bread Large Loaf

BOTH FOR ONLY 89¢

Cookies, Cakes, Snacks

- GOOD 'N' RICH SANDWICH COOKIES
- CREAM FILLED 2 lb. bag 59¢

- HI-HO CRACKERS 1-lb. box 33¢
- Cheeze-It Crackers 6 1/4-oz. Box 19¢
- RITZ CRACKERS 1-lb. Box 33¢
- BACON THINS NBC 8 1/2-oz. Box 33¢
- SALT-TANG Snack Sticks 9 1/2-oz. Box 33¢

Of Course You'll be Cooking Out!

WE SUGGEST THESE LUSCIOUS CUTS FROM OUR MEAT DEPT.

Armour Star
BONELESS—FULLY COOKED

PICNIC 5-lb! can \$2.99



Really Fresh CONTROLLED QUALITY

GROUND BEEF Medford's Finest 45¢ lb.

Nebergall's "A" HEN TURKEYS 9 to 11-lb. Average 45¢ lb.	Nebergall's CHUCK WAGON SAUSAGE 50% Beef 50% Ham 39¢ lb.	Nebergall's LARGE BOLOGNA Any Size Piece 39¢ lb.
---	--	--

Swift's Premium SKINLESS

FRANKS 12-oz. pkg. 39¢

MISSION **CATSUP** 4 20-oz. bottles \$1.00

