

### Radar Antenna Design To Speed Missile Spotting

San Diego, Calif. (Science Service)—Enemy missiles may be detected as far as 3,000 miles from our shores as a result of a newly-found design principle for radar antennas. At the 15,000-mile-per-hour speeds of today's intercontinental ballistic missiles, this could mean 12 minutes' warning.

The principle, known as TETRAC (Tension Truss Antenna Concept), is claimed to offer greater accuracy, higher rigidity-to-weight ratio and lower construction and maintenance cost than conventional methods. It was developed by Narmco Industries, Inc., here, and will enable engineers to build radar antennas more than 20 stories high.

**Extends Range of Defense**  
David L. Grimes, president of Narmco, said TETRAC "will enable us to extend the range of our defense radars so that we can determine the precise distance, speed and direction of missiles better than 3,000 miles away, within minutes after they are launched."

Essentially, the TETRAC antenna consists of a series of concentric compression rings made of lightweight metal, plastic, glass fiber or other sandwich material for optimum rigidity at light weight.

These rings hold a giant reflector made of solid sandwich or open mesh material, and are stabilized by prestressed radial tension rods that work on the principle of giant bicycle spokes.

**Close Tolerances**  
The new design makes possible the fabrication, erection and operation of radar antennas to extremely close tolerances while maintaining a highly efficient ratio of weight to deflection, Narmco engineers said.

The lightweight reflectors can be transported and assembled easily and conveniently. Their parts are interchangeable.

TETRAC is also expected to facilitate important advances in space technology, radio astronomy and the harnessing of solar energy for practical use.

### Carbon Monoxide Overcomes Boaters

Portland - (UP) - Four members of a boating party were overcome by carbon monoxide gas Sunday evening and were treated at Physicians and Surgeons hospital here. They were reported in satisfactory condition.

They were Edward Thirkell, 63, his wife, Evelyn, 55, Portland, and Gordon Hanson, 64, and his wife, Kathleen, 56, Forest Grove.

Sheriff's deputies said the foursome became ill from the gas while cruising and headed for the dock.

### Court Records

**MUNICIPAL COURT**  
Philip Randall Austin, disobeyed traffic sign, \$5.  
Evelyn May Eatherton, violation of basic rule, \$10.  
Douglas Stanley James, violation of basic rule, \$10.  
Howard Lloyd Lehman, violation of basic rule, \$10.  
Peter William Vorbeck, improper left turn, \$5.  
David Homer Blakely, excessive noise, (three) \$5.  
Cecil William Gardner, excessive noise, (exhaust) \$5.  
Frederick Byron Nelson, disobeyed stop sign, \$5.  
Dixie Montgomery Stepp, improper passing, \$10.  
Janet Iris Brown, improper left turn, \$5.  
Mazie Winters Milsche, violation of basic rule, \$10.  
John Matthew Garner, violation of basic rule, \$10.  
Clifford Merrill Drury, violation of basic rule, \$10.  
Rae Waldron, no operator's license in possession, \$10.  
William Herbert Gregory, improper lane usage, \$5.  
John Carrion Ramos, disobeyed stop sign, \$5.  
Tommy Leroy Gunter, disobeyed stop sign, \$5.  
Kenneth Lee Dunleva, excessive noise, (muffler, exhaust) \$5.  
Samuel D. Earhart, violation of basic rule, \$10.  
James Jocelyn Emmens, violation of basic rule, \$10.  
Oliver Francis Smeltz, improper lane usage, \$10.  
Pauline Agnes Barlow, failure to yield right of way, \$25.  
Arden Daryl Thurston, violation of basic rule, \$10.  
Paul William Hammond, disobeyed yellow light, \$10.  
Clyde Wilson, disobeyed stop sign, \$5.  
Eileen Madge Doherty, disobeyed stop sign, \$5.  
Ervin M. Christian, violation of basic rule, \$10.  
Arthur Hill Gillmor, disobeyed red light, \$10.  
John Henry Lusk, violation of basic rule, \$10.  
Larry Robert Anderson, violation of basic rule, \$10.  
Kenneth Charles Smith, following too close, \$25.  
Kenneth William McKemie, violation of basic rule, \$10.  
Scott Leonard Adkinson, violation of basic rule, \$10.  
Barbara Jean Cox, disobeyed stop sign, \$5.  
Phillip V. Rennie, violation of basic rule, \$25.  
Margaret Genevieve Berriman, failed to yield right of way, \$25.  
Ailyn Carolyn Sherrill, violation of basic rule, \$10.  
Rose Arent, improper left turn, \$5.  
James Scott Fawcett, violation of basic rule, \$10.  
Lydia Utneff Huff, disobeyed stop sign, \$5.  
Othel Eugene Sawyer, inadequate equipment, \$2.50.  
Chester Edward Stevens, violation of basic rule, \$10.  
William J. Grow, violation of basic rule, \$10.  
Keith Wayne Stringfellow, driving on wrong side of street, \$5.  
Jimmy Dave Schelenbaum, excessive noise, (exhaust) \$5.  
Lellani Kunkel, violation of basic rule, \$10.



**SALE! Children's shoes sturdy, supple leather**

**2.99**  
Reg. 3.99

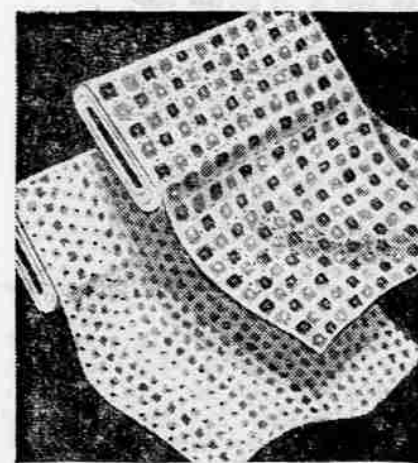
For boys: this handsome wing-tip in brown, sizes 10-3. Sturdy composition soles. For little girls: this smart 2-way "convertible" style to wear as pump or as 1-strap, in brown or red... sizes 8 1/2 to 3. Save now!



**SALE! Usual 2.98 washable nylon slippers or petticoats**

**1.99**  
SIZES 4 TO 14

Top quality! Dainty bouffants in fast-drying, no-iron nylon. Slippers have adjustable straps, elastic back. Petticoats are of multi-color nylon net.



**FABRIC SALE! Designer print, gay crease-resistant cottons**

**2 yds. \$1**  
USUAL 98c A YD.

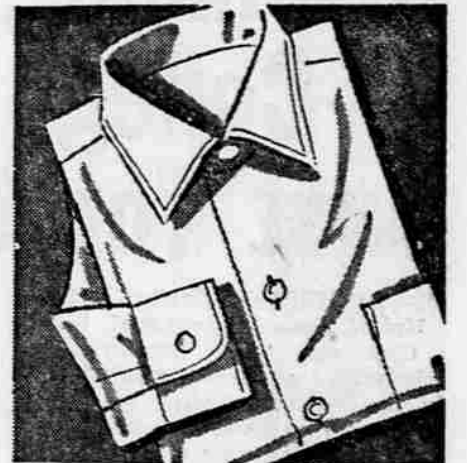
Carefree washfast fashion cottons—require little if any ironing, stay neat and crisp! Unusual patterns for dresses. 36".



**SALE! Men's Pinehurst shoes price now reduced \$2 a pair!**

**8.99**  
REG. 10.99

Choice leathers, pre-selected for softness and wearability! Flexible Goodyear Welt construction. Custom or plain-toe styles. Black, brown. 6-12.



**SALE! Men's automatic wash 'n' wear cotton shirts**

**3.48**  
REG. 3.98

Reg. 3.98 Golden Brent. Drip dry or tumble dry! Wamsutta Suttamatic—a luxury blend of pima and broadcloth. Good Housekeeping approved.

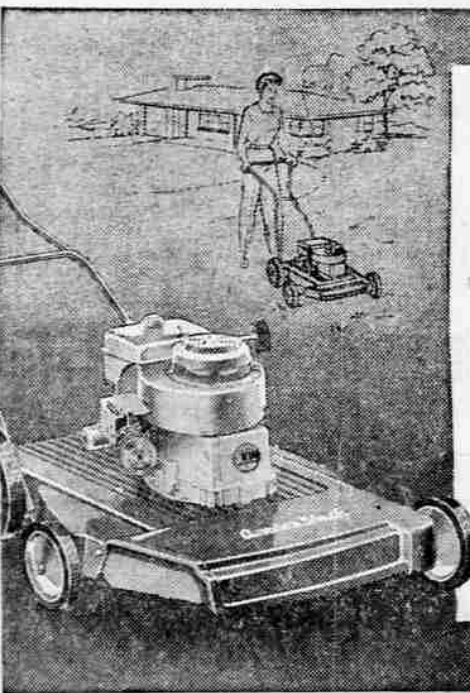


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**HURRY! Hundreds of super buys all thru the store!**



**SAVE \$25! Wards 22" rotary power mower**

Was **84.95**  
**59.88**

Powered for top performance! Husky 2 1/4 HP engine, choke-a-matic controls make the tough jobs easy. Staggered wheels trim close. Front discharge for most convenient method of disposing of waste. See it at Wards!



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**Sale! Regular 154.95 AIRLINE 17" portable fringe area TV**

**\$144**  
\$5 DOWN

Ideal second set—take anywhere. Weighs 33 lbs. Built-in antenna. Aluminized 90° picture tube. Removable tinted glass.



**SALE! 4.98 wash 'n' wear boys' gab slacks**

**4.48**

FAVORITE COLORS  
Wash 'n' wear, little or no ironing needed! 65% rayon fortified with Dacron® and nylon. Sizes 12 to 18. Junior boys' sizes 6 to 10, reg. 3.98.... 3.58



**SALE! Boys' speeds shorts 3 for 1.48**

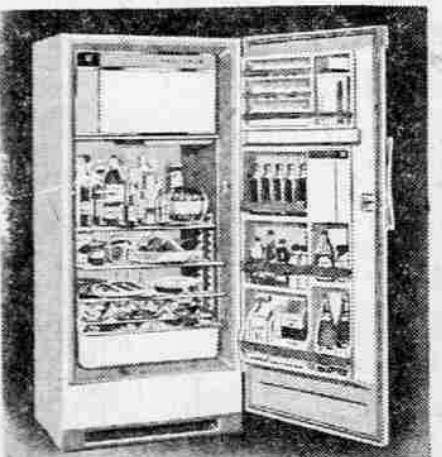
Reg. 3 for 1.75. Rib knit cotton. Double layer seat. Sizes 10-18. Reg. 3 for \$2 T-shirts... 3/1.68



**SPECIAL SALE! On new washable nylon dresses**

**5.98** Usually 7.98 Sizes 7 to 14  
**3.98** Usually 5.98 Sizes 3 to 6x

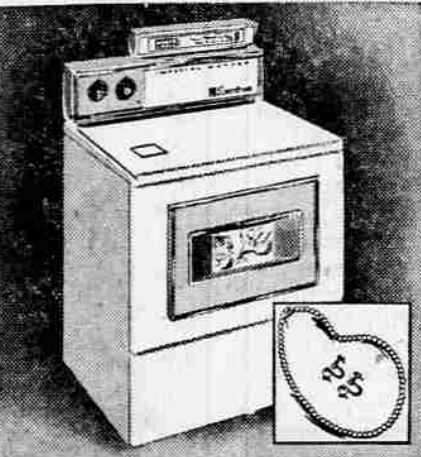
Wonderful Easter fashions! Fully lined and sweetened with permanent pleated skirts, attached petticoats, embroidery, lace or ribbon accents. Best of all, they wash in warm suds, drip dry, need little if any ironing! Select from new spring pastels!



**Trade and save on this big TRU-COLD 12.7" combination**

**\$278**

Automatic defrost refrigerator section plus 74-lb. capacity true-zero freezer. 3 adjustable shelves, full width vegetable crisper. WITH TRADE



**Free \$80 pearl set with Wards new '59 automatic washer**

**299.95**

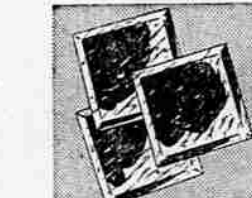
Beautiful cultured pearl necklace, earrings are yours with purchase of 6-cycle, 11-lb. capacity Signature Imperial. \$10 DOWN



**SALE! Reg. 5.79 Super—no finer house paint made**

**4.98**

Guaranteed equal to the highest-priced linseed paint on the market. Resists chipping, cracking, peeling. White is self-cleaning—dirt washes off. GALLON



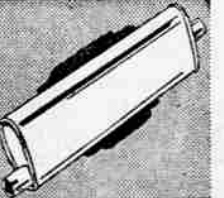
**SALE! Reg. 31c PLASTIC TILE**

Install it yourself. Color choice. Wipes clean. Sq. ft. **35c**



**SALE! Reg. 3.10 VITALIZED OIL**

Additives cut carbon and sludge. 10 qt. can. **2.54**



**SALE! Installed RIVERSIDE MUFFLER**

For Plym., Dodge 6, Chev. and Ford. **9.99**



**Save \$12! 6 1/2" portable saw complete with carry case**

**39.88**  
REG. 51.99

1 hp motor is protected from stalls by safety clutch. Cuts 2x4's even at 45°. Ball and needle bearings. 1 year guarantee.



**SALE! Reg. 3.98 galvanized 20-gallon trash can with lid**

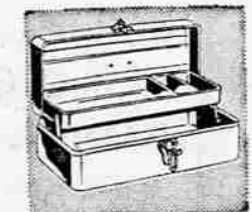
**2.88**

Watertight, rust-resistant corrugated steel can—extra strong! Riveted handles. 20-GAL.  
• 2.98 can, 10-gal. 2.44  
• 89c pail, 10-qt. 68c



**Sale! 5.98 Wood Stepladder, 6'**

Grooved safety steps. Beam-back construction. **4.88**



**Sale! 2.79 Tackle Box**

Lightweight steel. Cantilever tray. 13 1/2" long. **2.14**



**DELUXE QUALITY SIDEWALK SKATES**

Guaranteed 300 miles! Adjust 7 to 11-inches. **3.33**



**SALE! 26x2.125 BALLOON TIRES**

Black. Firm grip tread. 24x2.125 Sale **1.84** Tubes ..... Now **99c**

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The complete water-fun combination! A powerful, compactly designed 5-hp. Sea-King motor that speeds from 1 1/2 to 12 mph. Plus a 12 foot, fast and sporty aluminum auto-top runabout boat and a 700 pound load-rated T-frame trailer. Boat, motor, or trailer sold separately at Sale Prices.