

Patents Reveal Future Items of Convenience

Washington Science Service — The landing space required by the jet aircraft of the future may be less, thanks to a means of reversing the direction of thrust of a jet engine just patented here.

This invention won one of the 976 patents granted last week, for Edgar P. Peregrino, Dayton, Ohio, who assigned it to Bristol Aero Engines Ltd.

The device consists of the valve which closes off the jet stream so that the pressure of the jet holds it closed. The duct through which the jet gases pass and channels them around to provide a thrust in the opposite direction. The valve consists of two (or more) segments which open and close like the beak of a bird so that, when open, they fit flush with the walls of the duct, and, when closed, they seal off the duct completely.

The "beak" points up stream so that the pressure of the jet holds it closed. The closing of the valve uncovers side ducts, previously sealed off by the valve segments, through which the jet stream is deflected. At the same time corresponding sections swing out from the outside surface of the plane to complete the side ducts so that the jets are now directed back in the direction of the plane's motion to provide a braking effect.

The inventor, Vilas L. Snyder of Wichita, Kans., explains that his mobile home may be expanded when used for "sleeping or cooking or any other purpose for which trailer houses are designed" and may be contracted for travel for less wind resistance, less obstruction to vision, a lower center of gravity, and greater stability.

Sections Raised, Lowered — The trailer is made in three vertically telescoping sections which are raised or lowered by means of a cable and pulley system operating through a winch.

Also patented this week were an improved baseball bat, a flip-top cigarette box with a built-in ash receptacle, and a multiple smoke signal unit.

Clarence L. Paulus, Columbus, Ohio, points out that baseball bats often chip and split after prolonged use. A player often has to discard his bat just when he has become well used to it.

To prevent this chipping, Paulus has invented a bat in which a series of strips of very hard wood are let into the striking surface of the bat so as to be parallel to the length of the bat and perpendicular to the layering of the wood. The patent was assigned to Hillerich and Bradsby company, Louisville, Ky.

There will be no excuse for getting cigarette ash on the carpet should some forward-looking manufacturer adopt the idea of Clyde A. Richard O., and Donald G. Peel of Spring Lake, Mich. They have designed a flip-top box in which the side also flips out to form an ash receptacle.

Another form of smoking is the subject of a patent issued to Bruce E. Del Mar, Los Angeles, and assigned to Del Mar Engineering Laboratories Inc., also of Los Angeles. The invention is a multiple smoke signal — an airborne smoke bomb that contains a number of smoke capsules which may be set to be released in a predetermined sequence as military signals.

Other inventions patented here this week include a side-mounted rear view mirror with an automatic wiper for trucks, a means of coating movie screens with lead carbonate crystals to give brighter pictures, a hair drying cap knitted with covered heating element which plugs into the electric circuit, and an underwater camera housing which, the inventor claims, maybe adapted so as to fit virtually any 35mm camera.

Firefighters Delay Action by Council

Portland — (AP) — Objections from the Portland Firefighters Association Wednesday delayed city council action on sending several proposed city charter changes to the voters.

The proposed changes are intended to "modernize" several chapters of the charter, including a chapter on the fire and police fund.

Harry Williams, representing the Firefighters Association, said the proposed revisions would result in "merely changing some benefits."

New Bridge Forces Store To Close

Portland — (AP) — W. E. Roberts, chairman of the board of Roberts Bros., said today that the firm's department store at S.W. Third and Morrison here will be discontinued, probably next month.

Roberts said the new Morrison Street bridge has changed traffic patterns in downtown Portland and "has made the location less desirable as a retail outlet."

Roberts said the closure would not affect other Roberts Bros. stores, like Lipman's in Portland, Salem and Corvallis.

No Job Too Small

New York — An 11-year-old who wanted a football jersey but didn't have the money to buy it decided to try a bank.

William Sicari went to the Manufacturers Trust company, pledged his bicycle and his electric train as security and floated a \$5 loan. The terms were that he pay \$1.02 each month for five months.



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One Week Only
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- Children's Play Shoes and Leather Sandals

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(Not Included in 1c Sale)

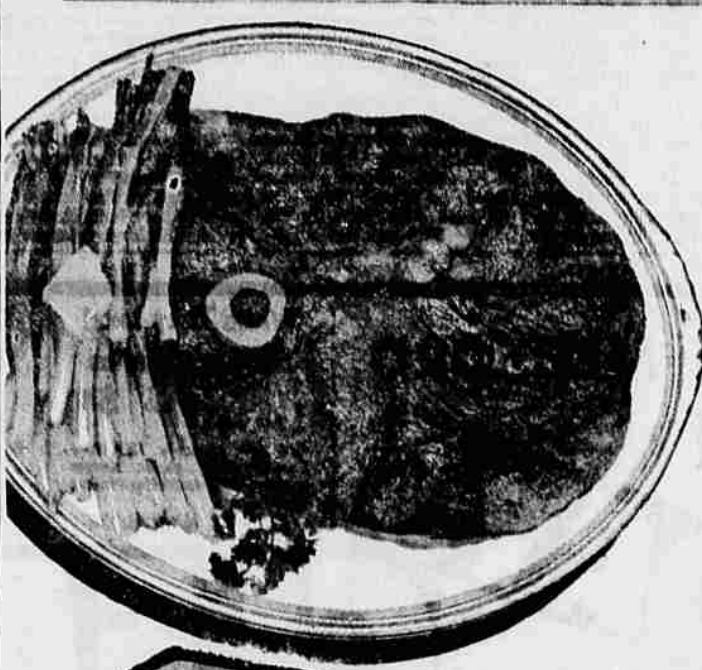
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FRESH SALMON 69¢ lb.

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VINE RIPE CALIFORNIA Big, Red, Slicing
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Local-Extra Fancy CUCUMBERS	California - BULK CARROTS	LOCAL PEACHES
Farm Fresh 10¢ lb.	Crisp Carrot Curly Dress-Up a Salad 10¢ lb.	NOW COMING IN!

HEAD LETTUCE 2 Heads 29¢
CRISP • FRESH • HEFTY
How about a lettuce, tomato, cucumber salad?

Groceteria

6th and Grape

THE PLACE TO GO FOR THE BRANDS YOU KNOW

SUMMER STORE HOURS:
Open Every Night Until 9:00 P.M.
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From Carnation: **FREE CALORIE COUNTER**
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TREE TEA BAGS RICH IN DARJEELING
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MJB Coffee 2-lb. can \$1.17

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LUX LIQUID 22 oz. can 73¢

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Liquid for Laundry

At Groceteria you receive the wonderful bonus of free—
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Ripe-Medium **OLIVES** No. 1 can, reg. 35c 29¢

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Waldorf Toilet Tissue 3-4 roll Packs (12 rolls)
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One Package of Jello FREE With Each Can

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NOODLES CHOW MEIN No. 2 1/2 size can 29¢

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PUREX 1/2 gal. 39¢

10¢ off regular price of
giant size **MR. CLEAN** 63¢ only

HUNT'S CIDER VINEGAR For Pickling 49¢ gal.

Save **THRIFTY GREEN STAMPS!**

Portland 'Riot' Case Continues

Portland — (AP) — Witnesses of a reported "riot" at a Portland drive-in restaurant last week said Wednesday they will ask Sheriff Francis Lambert to renew his investigation into alleged misconduct of his deputies during the affair.

Five Portland persons were arrested and indicted for "riot" as a result of the incident, after sheriff's deputies and reinforcements were called to the scene.

But a score of bystanders present during the incident said the riotous conduct was mainly on the part of the deputies. They said Mrs. Eugene Rosling, 20, one of the defendants, was held against the side of a car and slapped four times across the face before the deputies jammed her into a car.

Court Records

Richard G. Hall, failure to stop, \$1.
Ralph Goode, violation of bail rule, \$10.
C. Bodeau, violation of bail rule, \$10.
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Schilling PURE GROUND BLACK PEPPER 2 oz. can 29¢

Pickling Salt Morton 5 lb. bag 23¢

Combat Initiative Taught With Aid Of Toy Equipment

Fort Knox, Ky., Aug. 2 — U. S. Army tankers are fighting deadly serious battles with toy-size tanks on a miniature battlefield.

The mock combat at the U. S. Army Armor Center, which could mean the difference between life and death to the tankers in any conflict.

Amid the realistically simulated sounds of exploding mines, gunfire, crisp orders and the metallic whine of radio-controlled tank models, armored battalions are waged daily on a miniature battlefield 26 by 76 feet.

The small-scale battle area is complete with mountains, rivers, forests, buildings and other features that might be encountered under actual combat conditions. Two curtains divide the "battlefield" into the approximate distance a platoon leader might be able to see if he were actually engaging an enemy.

The tank platoon leader and his crew of 15 men are seated in compartments on a movable platform which rides several feet above the terrain board. The platoon leader's commands are transmitted by radio to the tank crews who operate five miniature tanks and fire electronic-eye tank guns.

Each of the platform's five compartments simulates the inside of a tank and accommodates three men — a gunner, driver and commander. A tank crew normally consists of four men but the gun loader is eliminated from the training exercise because the tanks are electronically fired.

At the other end of the building is an "enemy" force ready to give battle with a similar number of tanks. The curtains open as the opposing forces of tanks advance, allowing the teams to work out the simulated combat problems.

Platoon leaders are scored on the methods by which they attempt solution of the tactical problems. Scoring is based on what is considered the best solution to the problem.

After each battle is concluded the tankers are briefed on any errors they might have made and other ways in which the engagement might have been fought.

The project is the work of Dr. Robert A. Baker, senior research scientist for the Army Human Research Unit. Baker explained that the scale-model battlefield gives officers and crews a chance to engage in live platoon training without going into the field. This method, he said, is not a substitution for field exercises but will be used in conjunction with actual maneuvers.

"It is our hope to teach combat initiative," he said. "There is a natural tendency to hang back and we want to overcome any lack of aggressiveness."

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