

DEVICE PERFECTED TO SHOW AIRPLANE HEIGHT OVER LAND

An absolute altimeter which not only will furnish an airplane pilot with readings of his exact height above actual ground but which also will warn him of any obstacles ahead, today was reported to have been perfected after years of research.

According to wire advices received from Chicago headquarters by Max C. Henne, field manager of United Air Lines here, the altimeter was successfully demonstrated by United Air Lines and Western Electric engineers, along with a group of technical observers, on a special flight from New York. Following additional service tests by United, which is planning to install the device on all its planes in the near future, the altimeter will be made available to the industry generally, it was announced.

Reports stated that the device, as the first successful altimeter to show clearance above the ground, operates on the shortest radio wave ever used for commercial purposes and, due to the ultra-high frequency, is entirely free from static interference. Although the present unit weighs 40 pounds, production models will weigh only about 25 pounds, officials said.

Radio Signal Used

P. C. Sandretto, communications engineer of United Air Lines, is credited with first having applied the principle employed in the set, designed by the Bell Telephone Laboratories and built by Western Electric. It is said to involve the transmission of a radio signal to the earth, reception of the signal's reflection from the ground, and measurement of the elapsed time between transmission and reception, and translation of this measurement into a direct altitude reading in feet, from a few feet to a mile.

The description stated that the altimeter can be directed forward or at any angle desired to warn pilot should they be nearing terrain or obstructions and that a warning light flashes on should the airplane be below a fixed minimum altitude above terrain. In effect, the device thus gives pilots a realistic "picture" of the ground below and ahead, even when there is no visibility, Mr. Henne explained. Starting in 1939, it had proved effective under all conditions, officials declared the instrument to be so sensitive that it will register changes in ground terrain clearance when being flown over a two-story building.

To Be Installed

Following initial tests in both a laboratory and a simulated research plane of Western Electric, the altimeter was perfected and installed for service testing in a flight research Boeing twin-motored plane of United Air Lines.

"Our engineers and pilots regard the development of this device as one of the most important technical advancements in air transportation history," said W. A. Patterson, president of United, in a telegram to Mr. Henne. "The Bell and Western Electric laboratories, with which our company has worked on this project for the past two and a half years, are to be highly commended by the aviation industry for the important contribution they have made to the safety of scheduled flying. Following completion of service tests in United's flying laboratory, our company intends to make standard installation of these devices on every airliner in its fleet."

HIGH SCHOOL GRADUATES AWARDED OREGON MOTHERS' SCHOLARSHIPS AT U. OF O.



These three high school graduates have been given scholarships for the coming year by the Oregon Mothers, organization of University of Oregon students' mothers. All three have made exceptionally high scholastic records and have been prominent in school activities. They are (from left) Nisma Banta of Prineville, Elizabeth Jane Gregg of Amity and Joanne Ampoker of Eugene.

HOP GROWERS OF OREGON IN LINE FOR FEDERAL COIN

PORTLAND, Ore., Oct. 13.—(AP)—Pacific coast hop experts announced Oregon, Washington and California growers would have several million dollars in non-recourse loans available on 1938 hops if President Roosevelt signed a plan under consideration by various governmental agencies.

In Washington for a conference with department of agriculture officials, coast hop representatives said the money would come from the commodity credit corporation.

Proposed loan rates on 1938 hops would give growers 23 cents per pound on prime quality hops, 21 cents on medium quality, and 19

cents on common quality. Any grower of 1938 hops covered by certificates issued under the marketing agreement program would be eligible for a loan up to and including January 31, 1938, and would have until June 1, 1939, to pay it back with interest and carrying charges.

On June 1, hops remaining as collateral on unpaid loans would be pooled with the Pacific Coast Hop Stabilization corporation. Industry representatives said they proposed the pooled hops be sold through regular trade channels. Any part of a three-cent per pound deduction not needed to liquidate all loans would be returned to the producers.

William S. Walton, Salem, director of the coast stabilization corporation, said the program had been favorably considered by government agencies but formal action had not been completed.

girl weighing 6 1/2 pounds. The baby has been named Sandra Jane. Mr. and Mrs. Walt Antle are grandparents of the baby.

Use Mail Tribune Want Ads.

German movie fans prefer scenes depicting life among the upper ten thousand to any other kind, according to the monthly magazine, "Der Deutsche Film."

Tea

Enjoy the refreshing goodness of Schilling Tea! Made from choice tea leaves, it always gives you a clear, delicious cup—delicate in both flavor and aroma. Remember, Schilling Tea is protected and kept fresh in an attractive, red cellophane-sealed package.

Schilling

BIRTHS

Born to Mr. and Mrs. E. W. Kessler of 328 Crater Lake avenue Wednesday evening in Sacred Heart hospital, a

ALASKAN SHOOTING STOWAWAY TRAPPED IN HOME

JUNEAU, Alaska, Oct. 13.—(AP)—Forest B. Smith, 44, was at liberty on his personal recognition today as U. S. marshals deputies investigated his claim he fatally shot Oliver Colling, 44, of Seattle, steward aboard the steamer Tongass, when he found Colling in his home with his wife.

His wife denied there had been any intimacy between her and Colling, either aboard ship or at the Smith home here. She contended Colling went to the Smith home to show her how to make a certain kind of salad dressing she had enjoyed aboard ship.

Assistant District Attorney George Flota said Smith told him he had suspected his wife and Colling and told her he was going hunting yesterday. Instead, Smith's statement said, he returned home and hid in the house.

He heard Colling call at the house and enter, then hearing suspicious movements, he burst into the room, his statement continued. When Colling advanced on him, Smith said, he fired two shots in self defense, one striking Colling in the heart.

In Seattle today Mrs. Jeanette B. Colling, Colling's white-haired widow, sought funds for a proper burial for her husband.

She said "It is hard to believe he died under the circumstances described. He had always been faithful to me."

MILK PRODUCTION ESTIMATES SHOW VALUE 9 MILLION

ASTORIA, Oct. 13.—(AP)—The state milk control board, releasing its 1939-40 estimates on production of bottled and canned milk for human consumption, predicted today 15,680,000 butterfat pounds of fluid milk and cream would accumulate a two-year value to producers of \$9,094,400.

A. E. Engstrom, board member, said the budget report compiled by R. H. Thomas, auditor, showed a trend in the cities toward a decline in bottled and canned milk consumption. The report established both biennial and monthly estimates on production and statutory fees.

In arriving at the total and monthly "value to producers" in butterfat pounds of fluid milk and cream sold for the next two years, the board established a price of 58 cents per pound or 56.3 per cent of the retail market value. The monthly estimate of value to the producers was \$378,934.

The total two-year value to distributors, 43.7 percent of the retail market value, was \$7,059,063 or a monthly estimate of \$294,137. The full value of milk and cream for human consumption was estimated at \$16,133,463 or \$675,127 a month.

Northwest State Co-Operatives Do Huge Yearly Trade

SPOKANE, Oct. 13.—(AP)—A. C. Adams, president of the Spokane bank for cooperatives, said today farmers and stockmen's cooperatives of the four northwestern states are doing a business of more than \$165,000 annually. He said a survey of Montana, Idaho, Oregon and Washington showed 493 marketing and 223 purchasing cooperatives were in the field.

State totals were: Idaho, \$25,500,000; Montana, \$13,700,000; Oregon, \$38,000,000; and Washington \$88,000,000.

WINDOW GLASS—We sell window glass and will replace your broken windows reasonably. Thorbridge Cabinet Works.

PUBLIC HEARING CITY BUDGET SET

Public hearing on the 1939 city budget will be held in council chambers on the third floor of city hall at 7:30 p. m. Friday, November 4. Anyone who desires to discuss the budget or object to any part of it may address the council at the hearing.

The proposed budget was published in full in Tuesday's Mail Tribune.

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OSC CHEMIST HAS NEW DAIRY FEED

CORVALLIS, Oct. 13.—(AP)—Cytine chemical mixed with alfalfa may lead to revolution in dairy feed selections and resulting increases in milk production, Dr. J. R. Haag, Oregon State College nutrition chemist, said yesterday his experiments indicated.

Mother rats were fed minute quantities of cyttine with alfalfa meal by Dr. Haag and his assistant, L. D. Wright. Milk flow of the mother rats increased to such an extent their young grew half again as rapidly as those whose mothers received only alfalfa meal.

Dr. Haag explained cyttine was an amino acid containing sulphur and found in certain proteins. Its most convenient source is hair, the college laboratories producing their supply from bushels of barber shop clippings.

The present production cost of cyttine would prevent inclusion in dairy feeds, Dr. Haag said, but he will study its effect upon cows. If the results are the same as with rats, Dr. Haag predicted it would markedly affect selection of concentrates for feeding with alfalfa hay, largely used by Oregon dairymen.

NICHOLSON HEADS 'U' SPRAGUE CLUB

EUGENE, Oct. 13.—(Sp.)—Jimmy Nicholson, star halfback on the University of Oregon football eleven, is chairman of a newly organized Sprague for Governor club just formed on the college campus here.

Other officers of the group include Richard Little of The Dalles, vice-chairman; Robert Elliott of Portland, secretary-treasurer; Rosemary Oestle, Portland, chairman women's division; Fred Vincent, Portland, chairman of men's division.

Nicholson, who is a graduate of the high school in Sprague's home city, declares that sentiment for the Salem editor is high on the campus and that an intensive campaign to obtain absentee ballots for all students qualified to vote will be promoted by the new organization.

I'LL TAKE OOP!



What's yours—whiskey mixed or whiskey straight?

MIX it for you? Then mix it with OOP (short for Old Oscar Pepper). For OOP is all whiskey—so it stands up in any mixed drink.

Rather take it straight? Then OOP is your whiskey! For it's a combination of straight whiskeys, specially selected to give you a combination of robust flavor and mellow smoothness.

So try OOP—today—any way you like. You'll like it all ways! *Frankfort Distillers, Inc., Louisville & Baltimore.*

Old Oscar Pepper BRAND

A blend of straight whiskeys—100% straight whiskeys—90 proof

\$1.00 FULL PINT **\$1.95** FULL QUART

Also Available in Rye

Semi-Annual PENNEY DAYS

A REAL BIG VALUE

1 lb. All Wool Bats
Virgin Wool!
Cream color!
\$1.00

Full comforter size; soft cream color virgin wool Bats that are priced seasonally low. Get yours now—quantity is limited.

PENNEY'S Balcony

81 in. Sheeting, yd.
19c

Firmly woven natural colored Sheeting. Full 81-inch width. Just 200 yards in the lot, so shop early.

PENNEY'S Balcony

Pure Wool Blankets
Double - Pair
\$5.00

66x80 inches
Smart Colors
Good Weight

Pennies set the price again in these large, double, virgin wool Blankets, size 66x80-inches. Smart black plaid design; rich colors, rose, blue, gold, green and orchid. Only a limited number, so get yours early.

PENNEY'S Balcony

Men's Durable work pants pr.
\$1.69

For long, hard wear on any job it's hard to beat these Oxford gray whipcord work pants; strong seams; good pockets with strong seams; 29 to 42.

PENNEY'S Lower Floor

Men's Warm Flannel Shirts
69c

Warm, serviceable Flannel Shirts in tan and grey suede cloth, sizes 14 1/2 to 17, full cut, coat style. Very unusual value!

PENNEY'S Main Floor

Men's Warm Winter weight Union Suits
Special Feature 50c

Men! Think of it, a well made, full cut, cotton ribbed knit Union Suit for only 50c. Full length leg and sleeve. Ecru color. Sizes 36 to 46, without a doubt the best buy we've had in years. Stock up now!

12-lb. Cotton Unions 69c
16-lb. Cotton Unions 98c
100% Wool Unions 98c
15% Wool Unions \$1.29
33 1-3% Wool Unions \$1.98
50% Wool Unions \$2.49
100% wool Unions \$3.49

PENNEY'S Main Floor

Men's Flannel Pajamas
98c

Warm coat or middy style Flannel Pajamas in colored striped outing, good weight, full cut, and well made. Get ready now for colder nights.

PENNEY'S Main Floor

Men's Zipper Front Cossack Jackets
All Wool Heavy Quality \$2.98

These heavy quality, zipper fasten jackets are made of 32-oz. all-wool navy blue Melton cloth. Slash pockets; adjustable sides; full cut, sizes, 36 to 46. Boys' sizes \$2.79.

PENNEY'S Main Floor

Warm Flannel Gowns
59c

Women's finer quality, bias cut outing flannel gowns in white and pastel colors. Assorted styles; sizes 14 to 20.

PENNEY'S Main Floor

Children's Cotton Hose
10c

Durable quality, ribbed knit cotton stockings in light or dark tan shades. Reinforced heels and toes; 8 to 9 1/2.

PENNEY'S Main Floor

In One Store...In One Department...At One Time... Tomorrow at Penney's Over 200... **NEW FALL COATS** For Sale at Sensationally Low Cash Prices!

- Styles for Dress Wear
- Styles for Sport Wear
- The Pick of the Market

Pay Cash and Save at Penney's



DRESS COATS \$9.90

Lavishly furred, princess and swaggar styles for sports wear. Fine wools in gray, green, rust, brown, navy and copperstone. Or fashionably fitted dress coats, with or without belts. Beautiful fur collars that can be worn high or draped over the shoulders. Priced at \$9.90, \$14.75, \$19.75.

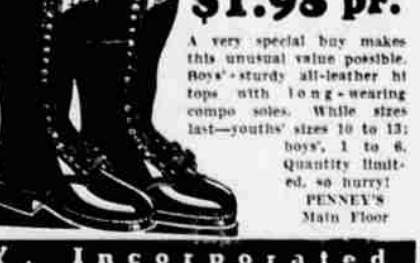
PENNEY'S Second Floor

BEAUTIFUL FUR TRIMMED COATS—\$14.75

ON SALE TOMORROW—**Boys' Leather Boots** AT A SELL OUT PRICE **\$1.98 pr.**

A very special buy makes this unusual value possible. Boys' sturdy all-leather hi tops with long-wearing composite soles. White sizes last—youths' sizes 10 to 12; boys', 1 to 6. Quantity limited, so hurry!

PENNEY'S Main Floor



- Fine Quality Wool Fabrics
- Expertly Tailored
- Season's Finest Values

Largest Selection Ever Offered



OVERCOATS \$11.90

Real quality with economy. The buying power of 1,500 Penney stores guarantees you dependable quality, utmost style and maximum value. You save money when you buy your clothing at Penney's!

Select yours today from the largest stock in our history—raglans, ulsters, poles, and wrap-arounds in fall's best colors. A small deposit will hold your selection.

PENNEY'S Main Floor

OTHERS—\$14.75—\$19.75

Special! 37 Pair Men's Heavy Rubber Boots to go **\$1.98 pr.** at

From a famous manufacturer of men's better Rubber Boots, 14 inches high, duck lined, heavy serviceable soles and uppers. Sizes 6 to 11. New stock, but only 37 pair, so come early!

PENNEY'S Main Floor

