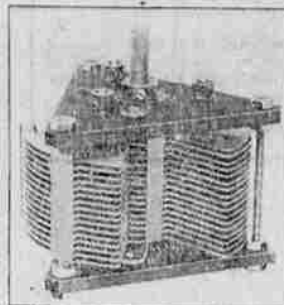


# NEW APPARATUS AND DEVICES

By RALPH BROWN

RADIO ENGINEER, CUTTING AND WASHINGTON RADIO CORP.  
AN EFFICIENT VARIABLE CONDENSER.

If any condenser has high dielectric loss it is far from being efficient when used in a high fre-



quency oscillating circuit. It is, in fact, not efficient in any alternating current circuit since the dielectric loss represents just so much actual ohmic resistance in series in the circuit. In a radio receiving circuit, this always results in decreased signal strength. To the end of reducing this dielectric loss as far as possible

without actually cheapening the condenser, the one illustrated has been produced. The losses are kept low by using only a high grade of hard rubber for the dielectric in small quantities and so placed with respect to the electric field that the hysteretic losses are kept at a minimum.

A unique feature is the scale which shows the capacity of the condenser in microfarads. In addition to the regular degree graduations etched on the metal dial, the plates are of heavy sheet zinc and spaced to prevent short-circuiting. Those of the stator or stationary unit are all soldered together, as are also those of the rotor (the movable plates). The construction is, therefore, rugged and the resistance between the plate connections is kept constant.

A special type spring bearing is used to insure good contact between the rotor and the stator plates. The tension always remains the same, so that there is no chance for the plates of the rotor to loosen as the bearing wears. The thrust is all on one bearing, and there is no danger of the condenser short-circuiting or changing its capacity if the distance between bearings becomes changed. This is a valuable feature.

The capacity minimum is 20 microfarads, a very low value, and makes tuning possible over a wide range of wave lengths. The maximum capacity is 1,000 microfarads.

The rotor plates are grounded to the metal case to provide for shielding the condenser and eliminating body capacity effects due to unshielded plates. This metal case has a black crystalline finish which makes a very fine appearance. The one is shown in upper picture, while the lower shows the condenser itself.

evening service hour. A union meeting was held.

At the last meeting of the Girls' Athletic Club, which was held at the Len Davis home in North Union, Miss Eunice and Dorothy and Mrs. Claude Bueck acted as hostesses. The meeting was held Thursday evening. Arrangements were made to give a club dance before school closes as many of the members will not be home during the vacation months.

The street committee of the city council will erect signs in different parts of the city to direct traffic while Main street and some of the lateral streets are torn up. There being only two other streets besides Main which have bridges across Cathlamet creek, to get about the city with vehicles is rather difficult.

The Woman's Club held their last week's meeting at the K. P. hall on Thursday afternoon, with Mrs. Mabel Regale as leader. "Oregon Literature" fully became a popular place for

was the subject, and there were several interesting papers read. Miss Lena Cook, Hazel Green and Ruby Knight acted as hostesses for this meeting and served a dainty lunch.

Miss Lee Halling finished her school in the Hempe district last week, the occasion being duly celebrated by an all-day picnic in the hills. This was Miss Halling's first school term, as she was one of the teacher training students in the Union high school the previous year.

Mrs. Hal Rees, one of the primary teachers in the Union schools, went to La Grande last Friday afternoon to see the exhibit work in the schools at that place. Miss Ella Bellus substituted for Mrs. Rees during her absence.

Many out-of-town people were registered at the Union Hotel during the week. This institution is rapidly becoming a popular place for

dinner parties and association meetings. Among the registrations from this vicinity were: M. A. Gilliam, Asa J. Cramer, John Becker, J. P. Penford and wife, W. S. Ross and wife, E. A. Phillips and wife, G. W. Palmer and wife, D. W. Ludwick and wife, William Doby and wife, Tom Bosman and wife, G. M. Byder, H. B. Gannon, Lily O'Hyan, Floyd Jones and wife, Charles Palmer and wife, all of Baker; John D. Daly, Arthur Tracy and V. C. Kerr, of Boise; C. R. Harding, Leo French, Nell Grimmett, E. W. Harkman, S. D. Clinton and wife, Edna Snider, Ernie Snider, Nell Mahaffey, O. H. Kincaid, C. C. Stewart, Louise Zorn, Mary Nichols of La Grande; Bertha Graham, of North Powder; D. W. Johnson and wife of Pendleton; Robert Erickson and Eldon Cooper of Weiser.

May 10th last day to pay water rent without a penalty. 5-6-31

Highest price paid for clean, large-sized cotton rags.

### For Sale

Steam heated hotel, doing a good business. Will sell on reasonable terms. \$1500.00 will handle it. Setting of account of other business.

Improve BELMONT ROOMS

## Fraternity Night

AT THE ISLAND CITY CHURCH  
Sunday Night, May 7th 8 o'clock  
—Special music, vocal and instrumental.  
—Address—Christianity and Fraternity.  
Members of all Fraternal orders and non members are cordially invited.  
COME  
You will hear something worth while.

### Just... Arrived

Patent leather one-strap, low heels and welt sole. Same as above in silver gray suede.

## The Bootery

A Paradise for Tired Feet  
206 Depot St. Phone Main 118  
GROVER SMITH, Manager

### SEE THE BEAUTIFULLY DESIGNED PERIOD MODEL BRUNSWICKS

Queen Anne, at .....	\$235.00
Colonial, at .....	\$260.00
Stratford, at .....	\$310.00
Cambridge, at .....	\$360.00
Oxford Electric, at .....	\$575.00

And All Upright Models from \$65.00 up

—At—

## Eastern Oregon Music Company

A small payment down will send one to your home

## W. R. C. HEARS TWO OFFICERS

(Special to The Observer)  
UNION, May 3.—Last Saturday afternoon at her home in South Union little June Evans entertained about twenty of her friends in honor of her sixth birthday. The little folks had a very enjoyable afternoon playing games and especially partaking of a dainty lunch. Miss June was the recipient of several presents. Those present were: Dendell and Katherine Green, Elma and Evan Halsey, Marguerite and Audrey DeLap, Lois and Alice Gamble, Roger and Flora Hayden, Elsie and Edna Ficklin, Thelma Van Houten, Dora Cronter, Fredrick Brown, Frederick Spain, Elaine Hess, Raymond Reuter, Robby Burton, Ruth Connor, Evelyn Gamble and June Evans.

Five Agricultural students, under the direction of Ralph Morgan, head of this department, put on a play at the high school on Friday and Saturday evenings, entitled "Back to the Farm." It was a three-act comedy-drama and the parts were presented in a very interesting manner. Miss Bellus was leading lady and Reid Blacker handled the hero's part, but the other characters showed up well also, and the play was lively and interesting all through the three acts. Following is the cast: Charles Merrill, Thurston Chadwick; Mr. Ashler, Annie Campbell; Merton Merrill, Reid Blacker; Gus Anderson, Paul Cook; Mrs. Merrill, Dean Wolf; Reuben Allen, Clifford Johnson; Rose Mende, Ida Bellus; Robert Powell, Vernon Johnson; Margerie Laydon, Elda Miller; Hulda, Lura Bideler. The school auditorium was comfortably filled for each performance.

Miss Zorn, county health nurse, and Miss Nichols, librarian at La Grande were in Union last week, the former checking up and finishing some work at the schools and the latter doing some work at the local library.

At their regular meeting last Saturday afternoon the local Woman's Relief Corps entertained two state officers, Mrs. Jessie Nelson of La Grande and Miss Mae Pforinger of Portland. The latter was here as Departmental Patriotic Instructor for the Daughters of Veterans. Mrs. Nelson spoke on Child Welfare and the latter on Desecration of the Flag and of Memorial Day, ending with the recital of a poetical tribute to the flag. Mrs. Agnes Paddock was called upon and responded with an original ode to the national emblem. After the meeting closed refreshments, consisting of angel cake and coffee, were served.

The Baker baseball boys passed through Union and stopped at the Union hotel for dinner on their way to Cove for the game scheduled there Sunday afternoon.

The section of Main street between the railroad and the Union Hotel is receiving loads of crushed rock and will soon be ready for the hot stuff, the plan for which is about completed. Laying of the new pipeline along Main street is finished and the grading is about all done north of Railroad street. A gang of men is busy putting in the curbing.

Cleaning up and repairing at the Stock Show grounds is finished and ready for the coming event. Horse boxes are already here and in training.

Orrin Skiff was here to see the boys and from La Grande. He is working with his parents and collecting sheep for the La Grande Observer, for which he has been working for the last few months.

Mrs. Bell Wright, who owns to

Haines last Sunday evening a week ago, to spend the week with her son, has returned to Union.

The boys who organized a Modern Woodman lodge here last week are taking great interest in the organization. They took in a candidate at their last meeting. They also issued a challenge to any other lodge in the city to play them a game of baseball on the afternoon of the fourteenth of his month.

The state president of the W. C. T. U. was here Sunday and lectured at the Presbyterian church at the

O. P. HOFF  
For State Treasurer  
Second Term  
—Saved the taxpayers \$258,000.00.  
—Refused a salary increase for himself.  
—Honest, efficient.  
—His opponent is a banker and while Deputy Treasurer started a bank of his own depositing \$100,000 of state funds therein.  
(Paid Adv.)

## Everybody Enjoys Home-Made Bread

Why Not Make Some This Week—Here Is A Recipe Easy To Follow

### WHITE BREAD

6 cups Flour	1/2 cup Kingsford's Corn Starch	1/2 cup lukewarm Water
1 1/2 teaspoons Salt	1/2 Yeast Cake	1 pint Milk, scalded
		2 tablespoons Mazola

Scald the milk, cool till lukewarm and add Mazola. Sift the flour, corn starch and salt together. Dissolve the yeast in the lukewarm water; add it to the milk and stir in the dry ingredients. Knead on a floured board for twenty-five minutes. Place in an oiled bowl, rub the top very lightly with Mazola, cover loosely with soft cloth, and rise over night.

IT is not necessary to purchase both a bread and a pastry flour. By using 1/2 cup of Kingsford's Corn Starch to 1/2 cup of any good flour the percentage of gluten is decreased and the starch content is increased so that home prepared flour will make a lighter and finer grained cake.

FREE Ask your grocer or write Johnson-Lieber Company, Portland, Oregon, for beautiful holder of the new Kingsford Corn Starch recipe.

Johnson-Lieber Since 1848

## "Here Come the Elephants!"

Do you remember how you used to be on the job bright and early to see the circus parade? Remember how you thrilled as the lions, tigers, and the big, lumbering elephants passed in review? How the horses, the blare of the bands, the antics of the clowns, and the glitter of it all inspired you with a fervid determination to see the real show—the big performance in the tent?

You didn't realize it then, but you were getting a lot out of an attractive advertisement.

Perhaps you don't realize it now, but other advertisements, just as attractive, just as interesting and far more valuable to you, parade daily before you in the columns of this paper.

The merchants and makers of everything you want or need, here display before you their most attractive wares. It is truly "the greatest show on earth."

The whole purpose of any advertisement is to excite your curiosity, gain your interest, arouse your desire; to tell you something you don't know; to remind you of something you have forgotten; to convince you of something over which you have been hesitating.

In short, the purpose of an advertisement is, in one way or another, to make you happier.

READ THE ADVERTISEMENTS AND SEE IF THAT ISN'T SO?

## San-O-La Bath Room Accessories

Make the Bath Room What it Should Be

convenient and sanitary, as well as beautiful. A porcelain tub does not make a bath room. It is the small devices that complete it and give each member of the family a place for his or her requisites.

Just Received a Fine Assortment of SAN-O-LA BATH ROOM WARE

If you want something good; if you want something nifty, come in.

## OREGON HARDWARE AND IMPLEMENT CO.

We Have It Phone Main 53