

System of Short Time Credits for Farmer Proposed

Former Head of War Industries Board Urges Scheme to Meet Exigencies of Agricultural Operations.

By GEORGE F. AUTHIER,
Washington Correspondent Omaha Bee.

Washington, Sept. 8.—(Special Telegram)—A new system of short time credits for farmers has been presented to the senate agricultural bloc by Bernard M. Baruch, former head of the war industries board. Mr. Baruch's system is distinct from the federal farm board system and aims to meet the great need of the farmer, which is short-time credits—credits which will enable him to meet the exigencies of his farming operations in spite of the long time required for him to turn over his product.

Mr. Baruch urges a flexible, wide range of credit, large storage warehouses and elevators throughout the country, negotiable warehouse receipts and free access of farm products to foreign markets.

In brief, the Baruch solution of the short-time credit problem is this:

Organize the national agricultural credit corporation, with a franchise for 50 years, with a board of directors headed by the secretary of agriculture and four others appointed by the president.

The corporation to have power to discount notes, drafts, bills or other evidence of debt representing agricultural loans, and to advance money on commodity paper.

Authorize the issuance of bonds in sum 10 times its capital stock.

Authorize the federal reserve board to rediscount paper held by the corporations.

Warehouses and elevators, advantageously located, he said, would enable the farmers to hold their crops until the market improved without being compelled to dispose of them, when grown, to meet their obligations. He pointed the need of allowing farmers to use warehouse receipts as collateral for loans.

Set cut flowers in a pail of water up to their necks each night if you would have them last.



Grid Increases Sensitiveness

Connection of Grid Leak Should Be Made Across Condenser, Says Radio Expert.

The sensitiveness of operation of vacuum tubes designed for common usage is greatly increased by inserting a small condenser in multiple with a high resistance in series with the grid circuit. The character of grid control is dependent directly upon the bias potential maintained upon the grid. The necessary bias potential for varied conditions of use may be obtained either by tapping a fixed resistance in series with the filament rheostat, through which filament current flows, or by employing a "grid leak" connected across the grid condenser, or between the grid and the filament.

The value of grid leak unit to be used for any particular amateur receiver depends upon the design of the apparatus, the type of antenna-ground system, grid condenser and other minor factors. The value of grid condenser capacity generally used is .0025 mfd. with a grid leak unit of 1 megohm. The best values to be used vary somewhat with different vacuum tubes. If the grid leak resistance is excessively high, slow leakage will occur, causing a sputtering (gas engine exhaust) sound in the phones. On the other hand, too low a resistance will result in too rapid a leakage, causing a weak signal, inasmuch as the negative grid potential cannot accumulate to full value for each wave.

Different detector and amplifier circuits require grid leaks of different values. Likewise, the proper capacity for the grid condenser should be determined by experimenting with values between .0002 and .0004 mfd.

Tapping Coil.

In constructing homemade coils for the receiving set some consideration should be given to the tapping operation. If the taps are taken too far apart tuning will be difficult and

perhaps impossible. The station which is wanted may be located between two taps, and that is one reason why signals are heard louder when a switch arm is placed between adjacent switch points. The wave is somewhere around there and it is doing its best to be tuned right.

The "units" and "tens" method is probably the best. Where a single switch arm is to be used it is better to tap the beginning for the winding closely, say every five turns, and then go on the increase with eight, and then every ten turns. The tuning around 300 to 400 meters will be facilitated.

Questions

C. J. K., Kearney, Neb.—Q. What is the meaning of "natural wave length?"

A. It is the frequency of oscillation or length of wave which will cause the antenna system alone to oscillate periodically. This natural wave length in meters may be said

Miss Helen Weed accompanied Bertha Coffey Assman on the piano. Miss Britton's last song number was one of the hits of her repertoire.

to be approximately four times the overall length of the aerial in feet.

H. H. N., Lincoln, Neb.—Q. Explain fully the use of the word "heterodyne."

A. "Heterodyne" is the terminology of radio is the term used to describe the frequency oscillation in the receiving circuit, produces a beat of "difference" frequency which is the difference between the received signal and the "artificial" frequency. Dr. Fessenden invented this system.

WAAW Programs

Bertha Coffey Assman and Agnes Britton were features of The Omaha Bee's radio program from station WAAW last night. Both have appealing repertoires of song numbers. The program follows:

"Till I Wake"—Bertha Coffey Assman.
"Where Blossoms Grow"—Bertha Coffey Assman.
"Georgia"—Agnes Britton.
"Don't Bring Me Posies"—Agnes Britton.

Portland, Ore., Sept. 8.—(By A. P.)—Women of the Protestant Episcopal church in the United States, to their united thank offering which is a feature of each triennial convention, at the communion services to

day, gave \$669,126, according to official announcement made last night with accustomed ceremony at a mass meeting.

The communion service at which the money was given, was attended by 1,250 women.

The house of deputies, in triennial session today, adopted a resolution urging all people to pray in the interest of world peace. Ira W. Stratton of Reading, Pa., who introduced the resolution, recommended its passage in line with suggestions made by Canadian bishops who had addressed both houses of the convention joint session.

The house accepted the resignation of Bishop James D. Morrison of Duluth, who has retired on account of age, and referred to a committee the resignation of Bishop Robert L. Pad-

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Episcopal Women Donate \$669,125 to Church Fund

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dock of eastern Oregon, who was reported to be ill health. Bishop Padlock some time ago was subjected to criticism on account of his method of conducting the missionary district over which he presided, in that he had not accepted any funds from the central church organization in the 15 years he had presided over his district.



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Fancy Young Veal Chops, lb. 22½¢
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Domestic Sardines, 6 cans. 25¢
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Nomis No. 2 new pack Strawberries or Raspberries, 2 cans. 49¢
Del Monte No. 3 size Spinach. 25¢

CANNED FISH Purerry Santos, 3 lbs. 74¢
Food Center Special, 3 lbs. 88¢
Domestic Sardines, 6 cans. 25¢
3 tall cans Alaska Chum Salmon. 25¢

COFFEE Peaberry Santos, 3 lbs. 74¢
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