

CATHODE RAY IS YET IMPERFECT

Lack of Control Exists—Coolidge Has "Key But No Keyhole"

PHILADELPHIA, Oct. 21. (AP)—By his invention of a new cathode ray tube Dr. W. D. Coolidge is placed somewhat in the position of a man with a key for which there is no keyhole.

The improved tube may be the key to a scientific treasure house. The search for the keyhole is on.

Dr. Coolidge, assistant director of the research laboratory at the General Electric company at Schenectady, told of his invention and his struggles to discover its value when he was awarded the Howard N. Potts medal here last night. The medal was given him for his work in improving the Roentgen X-ray. Experiments with the cathode ray, from the new tube, he said, showed that it contained as many beta rays, the most important rays emanating from radium, as would be contained in a ton of that material. There is no known resistance in all the world only about one pound of radium and at present prices a ton of it would cost \$100,000,000,000.

WH "MILK" Rubber.

The new ray will make minerals exposed to it luminous. It will "milk" rubber plants, it acts as a "death ray" for insects and bacteria, and has peculiar effects upon the growth of hair. To what use these accomplishments may be put is still unknown.

That bacteria die speedily under the effects of the ray would indicate it might be invaluable for medicinal purposes, providing its strength could be regulated so as to be harmless to the patient. Experiments made on rabbits so far show that at present the cure would probably be more serious than the disease.

No Use in War.

Dr. Coolidge explained that the ray from the new tube could never be used as a death ray against humans, as an implement of war. With a current of 250,000 volts, the highest yet used in the tube, the ray's range is only two feet and the inventor believed that by using the highest voltage possible the range could only be extended to a few yards.

Roseburg May Get A Churn Factory

ROSEBURG, Ore., Oct. 21.—A demonstration of a newly invented churn was held recently before a group of local chamber of commerce members, the purpose being to show the practicability of the device, which, if plans work out, may be manufactured in Roseburg in the near future.

The rights of sale and manufacture of the churn in all of the territory west of Denver, are held by Alex Penabaz who conducted the demonstration.

Indian Woman, 135 Dies at Wishram

THE DALLES, Ore., Oct. 21.—Washington state's oldest Indian woman, Mary Spedia, is dead after having lived for 135 years at the tribal village at Wishram, four miles east of here across the Columbia river, according to the venerable woman and her relatives. She was buried at the tribal cemetery with traditional Indian rites.

TO RESUME CONFERENCES

PORTLAND, Ore., Oct. 21. (AP)—Conferences will be resumed in New York Oct. 24 between executives of the Southern Pacific system and of the Northern lines over the question of whether a program of cooperation shall be followed to enable the Great Northern, Northern Pacific and the Oregon Trunk line, to carry its projected extension from Bend to Klamath Falls part way over the Southern Pacific's Eugene-Klamath cut off.

Nebraska is the only one of the United States having no funded debt.

Women's Danger

Of offending under the oldest hygienic handicap now ended. New way provides true protection—discards like tissue

WITH the old-time "sanitary pad" women realize their constant danger of offense, plus the embarrassment of disposal. And thus spend unhappy days.

"KOTEX," a new and remarkable way, is now used by 8 in 10 better class women.

It's five times as absorbent as ordinary cotton pads!

You dine, dance, motor for hours in sheerest frocks without a second's doubt or fear.

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Do as millions are doing. End old, insecure ways. Enjoy life every day. Package of twelve costs only a few cents.

KOTEX
No laundry—discard like tissue

Alfalfa Seed Crop Smaller Than Last Year

WASHINGTON, Oct. 21.—Alfalfa production is expected to be 5-15 per cent smaller than the large crop of last year. The United States department of agriculture estimates the production at \$9,000,000 to \$10,000,000,000 pounds of country-run seed compared with \$4,500,000 pounds last year. The higher revised figures for 1925 are due mainly to the fact that, in past years, figures reported for some of the states were on a clean seed basis while those for other states were on a country-run basis. Furthermore the revised figures include much seed that does not enter commercial channels.

The decrease this year is due mostly to a marked reduction in the production in Utah, which last year contributed about 47 per cent of the total crop of the United States. Other states which probably produced less seed this year are Montana, Arizona, and California. The decreases in these states, however, are nearly offset by increases in Kansas, Nebraska, Colorado, Wyoming and Oregon, notwithstanding the fact that several of these states produce relatively small commercial supplies of seed.

The acreage for seed in the country as a whole was larger than last year and the yield per acre in a majority of states was also larger. The decreased yield, however, in a few of the most important states was largely responsible for the 5 per cent to 15 per cent reduction. The average yield per acre of 455 growers, whose aggregate production amounted to about one-sixteenth of the total crop of the United States, was 190 pounds, compared with 216 pounds last year.

Losses from "stripping" were much greater than last year. Hot, dry weather and high winds doubtless damaged the crop, considerably in some sections. A heavy frost about September 24 injured late seed, but most of the crop was harvested before that date so that the damage from this cause was probably no more than usual, but more than last year.

RUNAWAY BOYS "HUNGRY"

ROSEBURG, Ore., Oct. 21 (AP)—George Pote, aged 15, 1912 Jessup street, Portland, Wilbur Harper, 16, 1272 Simpson street, Portland, and George Millett, 15, Second and Lombard streets, Beaverton, were picked up here last night by city officers and are being held in the city jail while word from the parents of the youngsters is being awaited. The boys are runaways from home and the notation on the police blotter is to the effect that they were "powerfully hungry."

A campaign to abolish automobile racing in Germany is rapidly gaining ground.

TY'S FRECKLED KID



Herschel Cobb, 16-year-old son of Ty Cobb, already may be the champion of the freckle-faced, but he has higher aspirations than that. He says he's going to be a baseball wizard like his father, or perhaps a second "Red" Grange—he has the proper shade of hair. Herschel has been traveling with the Detroit Tigers this summer.

Circuits in Modern Radio Are On The Same Basis As in Years Past

CHICAGO, Oct. 20 (AP)—Unlike the various electrical instruments they represent, circuits used in radio receiver construction have shown no great basic change since the wireless art emerged from the laboratory stage.

There have been elaborations and improvements without end, but a diagram of the modern receiver shows that it is surprisingly similar to the earliest models. In fact the methods of coupling the circuit of one tube to that of another is practically the same today as it was when tubes were first devised. Other sections of the hookup have changed only in keeping with the increasing number of tubes and other apparatus. One of the circuits first to be

come popular with the home building enthusiast was the regenerative. It had numerous variations. It still is in vogue in the modern receiver, although somewhat disguised. It is now preceded, as a rule, with a step of tuned radio frequency amplification, retaining all of its advantages with added selectivity.

The five tube tuned radio frequency receiver and its co-models of a greater number of tubes, is another that has shown no revolutionary change. It consists entirely of a series of circuits known as the "simple audio" with various systems of oscillation control.

The simple audio layout was first used with the development of

the vacuum or audio tube. It provides a method of connecting the tube to its batteries and accompanying condensers and coils. Also it does not show a great difference from the wiring arrangement of a crystal set.

In analyzing a modern eight tube radio frequency amplifier the fact that it is merely an elaboration of the five tube is quickly apparent. It too consists of a series of audio circuits with changes made to accommodate added equipment necessary to maintain the receiver in balance.

The superheterodyne, which sprang into popularity along with the tuned radio frequency type, also goes back to the audio and the regenerative. These two are combined with long or short wave radio frequency amplification to the point where great selectivity and volume result. In some cases tuned radio frequency amplifica-

tion has been added to improve the receiver.

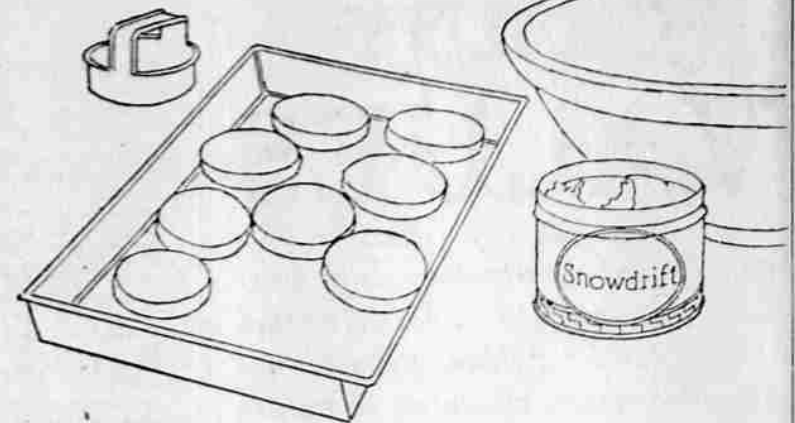
Dogs may now join the army.

New regulations authorize them as army units for such work as acting as messengers to carry relief appeals and for pulling sleds across

northern snows. Platinum has been found on the Gold Coast of Africa.

Good Health

—is the first requisite for Success—but it is impossible to acquire and maintain it if you are constantly harassed by mal-nutrition and irregular elimination. Increased brain power, increased vitality will follow the complete rout of irregularity of habit. Of course you may check irregularity through drugs for a day—a week—or a month, but you will simultaneously break down your digestive apparatus—and with it, your health. The only intelligent and safe way to regulate the processes of your body is through a perfectly balanced diet. Roman Meal, the perfect compound of two wonderful grains, wheat and rye, the whole berries, cut into little granules—is easily penetrated by the digestive fluids, and is completely nourishing. With these is just enough bran to form the necessary bulk for roughage.



CHEESE DISCUITS

- 6 Tablespoonfuls Snowdrift
- 3 Cupfuls Flour
- 6 Teaspoonfuls Baking Powder
- 3/4 Teaspoonful Salt
- 1 Cupful liquid, Milk or Water
- 3 Tablespoonfuls Grated Cheese

Mix and sift flour, baking powder and salt together. Cut Snowdrift into the flour with a knife, add cheese. Add liquid to make a soft dough. Roll out on a slightly floured board to 1/8 inch thickness. Cut with a biscuit cutter. Put on a greased pan or baking sheet and bake in a very hot oven (450 degrees F.) 10 to 12 minutes.

Whether you use Snowdrift in this recipe for Cheese Discuits or in your own favorite biscuit recipe, you'll find that Snowdrift is a very good shortening.

Snowdrift

a rich creamy shortening for making cake, biscuit and pastry and for frying



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SWEET POTATOES Nice Ones, 6 lbs.....29c	BUTTER—Fancy Creamery Pound 46c; Roll.....91c
POTATOES Best Local Gems, 100 lbs. \$1.98	EGGS Standard Processed, 2 doz.79c
CRANBERRIES Fancy Fruit, 2 lbs.....33c	SUGAR "Berry" Brand, 25 lb. sack \$1.75
CANDY BARS Assorted Kinds, 3 for.....10c	KEROSENE 5 Gallons \$1.20; Gal.....25c
OREGON WALNUTS Large Fancy, 2 lbs.....75c	CANNED TOMATOES Standard Grade, 8 cans.....97c
MARSHMALLOWS Fresh and Dainty, pound.....39c	SWEET CIDER Per Gallon (bulk).....35c

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