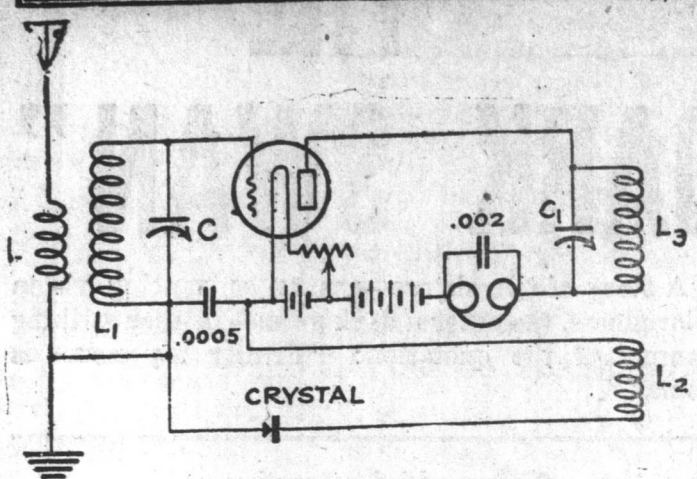


## Current Radio



### A Simple Reflexed Radio Frequency Set--2

Continuing from Saturday, we are showing the circuit of the receiver in a "standard" diagram. The symbols used in this diagram together with Saturday's are the same, so that the construction can be followed from either one. We strongly urge the beginner to carefully study both diagrams as it greatly facilitates constructional work to be able to read the more simple standard diagrams.

Either UV-199 (C-299) or UV-201-A (C301-A) tubes can be used. The 201-A's will be more sensitive but will require a 6-volt storage battery as source of filament supply. The 199 tubes can be operated from 3 standard No. 6 dry cells connected in series. If UV-199 tubes are used, the B battery voltage will be between 30 and 45 volts, while for the 201-A tubes a B battery voltage between 45 and 60 will be best.

If a fixed crystal is used, all that is necessary to tune the set is to turn the two condenser dials until a station is heard. After a station has been picked up the two dials should be carefully and minutely adjusted so that full advantage of the sharp tuning qualities of the set will be taken advantage of. If the set fails to work, it may be necessary to reverse the two connections to the coil L2. Simply switch the two wires running to this coil.

If an adjustable crystal detector is used, the crystals sensitive spot will have to first be located before the tuning can be done. To-morrow we deal with Crystals and tell how to adjust the crystal detector for maximum sensitivity.

It is perfectly possible to "log" stations, that is to note the settings of the two dials for a particular station. This station can be retuned by setting the dials in the same position. There being no regeneration in the set—and hence no regeneration control device—the tuning is very simple. Again, this set is extremely simple to build, operate and understand, and it gives the beginner much constructional work on breaking in to the building part of radio. It is one of the best combinations of a crystal plus a single vacuum tube that we know of. Try it and see!

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### Day of the Steamship is Nearing Close

Latest Returns Show 60 Per Cent. Craft Motor-Driven.

The possibility of the eventual disappearance of the "steamship" from the seas, and its complete replacement by motor-ships, is foreshadowed in Lloyd's quarterly shipbuilding returns, just published.

Lloyd's report, in emphasizing the remarkable development of internal combustion engines for the propulsion of ships at sea, says: "The tonnage of vessels now building in the world, which are to be fitted with internal combustion engines, amounts to 923,733 tons, while the tonnage of steam vessels under construction is 1,539,884 tons. The motor tonnage therefore equals over 60 per cent. of the world's new steam tonnage."

"In Denmark, Germany, Holland and Sweden the motor tonnage under construction greatly exceeds the steam tonnage; the combined totals for these countries being 142,838 tons of steamers and 477,006 tons of motor ships. The world figures include eighty-four motor ships each of between 5,000 and 10,000 tons, seven of between 10,000 and 15,000 tons, and six of between 15,000 and 22,000 tons."

Of vessels building in Great Britain as included at the end of December, motor ships amounted to 32.75 per cent. of the steam tonnage under construction, the actual figures being, steamships, 976,834 tons; motor ships, 320,137 tons. Britain has just commissioned a monster motor passenger liner, the *Auroral*, of 23,000 tons (for the Australian route), and although she commenced her maiden journey in the teeth of a pre-Christmas gale, reports have been so favourable that other vessels of this description are likely to be ordered immediately.

Though the capital cost of the motor ship is much higher than that of the steamship, shipowners throughout the world, say Lloyd's, are evidently reaching the conclusion that in some conditions the motor ship is the better paying proposition. According to other authorities, however, shipowners are expressing anxiety regarding the price they have to pay for fuel oil burners, and it is suggested that fueling some alteration, this factor may prove a deterrent to the progress of motor shipping. The case is quoted of a leading American line which decided to convert its oil-burning vessels to coal-burning, and stated that the saving effected in use of its vessels amounted to as much as \$75 a day.

Generally speaking, however, British shipowners are disposed to agree with Lloyd's that the motor-ship has come to stay, and many believe it will before long displace the coal-burner altogether.

### Northland Scenes by Maurice Cullen

MONTREAL PAINTER SHOWS CHARACTERISTIC OILS AND PASTELS.

WORKS BY ROBERT PILOT. Effective Paintings About Quebec And Environs By Young Artist of Great Promise.

There is diversity in the third annual exhibition of the paintings by Maurice Cullen, R.C.A., and by Robert Pilot, now being held in the Watson Art Galleries, 678 St. Catherine Street, west, and although the show only opened on Monday, the cherry red stars that indicate sales have already begun to appear on oils and pastels. Present plans are to close the exhibit on January 26th.

Prof. Cullen, picture-lovers have come to expect scenes of the Northland and as wild rugged country is the favorite sketching ground of this Canadian master of the winter season, there is mutual satisfaction on both sides. Two galleries are closing with oils and pastels, and while winter scenes predominate, there are paintings of other seasons—summer and autumn set down with the convincing fidelity which characterizes the period of snow and ice that Cullen has made distinctly his own.

In the years that Cullen has determinedly pursued his way to his present high place in Canadian art, he has painted a variety of subjects. It seems a far cry to his sunny paintings of women washing clothes in the streams of Brittany, stretches of bleak landscape in the same region and bits of rivers in Europe, painted with the bold vivid color of a modified Impressionism, to the admirable interpretation of Laurentian and Lower St. Lawrence scenery of recent years. The interim was filled with the painting of varied motifs—ice-cutters with teams at work on lake and river at high noon or dusk, oxen hauling plow over across ice-bound rivers, old buildings and quaint shops in falling snow at sundown, atmospheric problems seen by open water steaming in sub-zero weather on sunny days, and all these studies have brought him to the trail northward, where his recent work shows him to be at home. In the region about Mount Tremblant and the Cache River, he has found material congenial to his taste, and a lover of the out-of-doors, brought by age or infirmity to the comfort of an armchair, could in reviewing memories of his active years find solace in these canvases by Cullen. They are more than pictorial glimpses of a stated region, for the ice-fringed margin of open lake or river, with sun-flushed hills bold against the cloudy sky, might fit any section of the North Country—they personify the spirit of that land in winter, its beauty, grandeur and silence.

**NATURE SANELY OBSERVED.**

To the casual observer the painting seems so amazingly simple and direct—broad sweeps of paint with telling accents rightly placed, but it is the essence of a knowledge acquired through years of observation and of study. Spacious reaches of snow, white, blue, grey or ruby according to the hour, remain always snow that will give under pressure of the snow-shoe. The hills are anchored to the earth's core—are built to stay. There is a rugged solidity about the mountains that reflect their forms in waters icy cold. Spruces start up from shorelines banked with snow, and the odd birch, white against the white of leafless trees, mirrors its form in the still streams.

Of more temperate season is a glimpse of a sunny bank with birches, the stream, which tumbles in shadowed foam over leaf-littered still streams.

For Accuracy, silver medals in the International competition were secured by Misses Mollie O'Brien, Mamie Tobin and Genevieve Hayes. This is a very good showing and both teachers and pupils are receiving the congratulations of their friends.

rocks, reflecting the orange and gold of autumn foliage. In another canvas the yellow of birches strikes a sharp note in the rich minor cord of spruces edging a lake with mountain in the background. The lowering sun flushes the sky behind a clump of trees fringing a speeding stream in a summer landscape.

Truth is stumped on all these works—it is Nature sanely observed and honestly interpreted in terms of paint by an artist in whom the eye and the hand are in happiest accord.

Marked is the advance in the work of Robert Pilot, who finds picturesque material everywhere. There is a solid quality about this young painter's work which spells great promise, and no indication that he seeks the easy paths to recognition. Apart from some scenes in France, Pilot has found congenial subjects about Quebec—the sleighs grouped about the landing-place of the Levis ferry, quaint buildings in old-world streets and squares, with, looming into the sky, the new tower of the Chateau Frontenac. To all these subjects he has brought good drawing and sound color. Satisfying in arrangement and tone are some studies of horses and sleighs, the character of the sturdy, blanketed French-Canadian horses being well conveyed. There is a marked sense of design in the canvases of this artist, the placing of the groups in his street scenes being particularly effective. The winter season has made strong appeal to him, but it is the period of snow and ice in cities that he depicts, though there is spaciousness and atmosphere in his winter hills of the St. Lawrence about Quebec and Levis, which have presented problems satisfactorily solved.

Throughout the range of work by Pilot there is evidence of sincerity and determination. Of serious intent, he is moreover a hard worker who is satisfied with Nature as she is, and apparently no sympathy with those so-called "moderns" who couple distorted vision with natural or applied manual incompetence.

This joint exhibition by Montreal painters contains much of interest to students and picture-lovers alike.—*Montreal Gazette, Jan. 14.*

**Note.**—The talented artists referred to in the above are well known in St. John's. Mrs. Cullen was formerly Mrs. E. Pilot and Bob is her son. Many Newfoundlanders who have visited their home in Montreal remember with pleasure their charming hospitality, and their many friends will be delighted to receive the high tribute paid to the work of the artists.

**Insist on Queen Maud Sardines—no other "just as good."** Jan23,tf

### Attention, Girls!

**WOULD YOU DO AS MARION DAVIES DOES IN "ADAM AND EVA?"**

Attention, girls! Suppose your father were reported to be bankrupt to-morrow; would you be able to earn your own living and hold your family together as does Marion Davies in her latest Paramount-Cosmopolitan production, "Adam and Eva?"

Eva King, Miss Davies' only worry is how she can spend her daughter's money as fast as he is able to provide it. Then comes the shock of her life. Her father "loses" his entire fortune. What does she do—sell her jewels and live in comfort in an up-town apartment? She does not. She equips a farm in the country, the only piece of property left of the once magnificent King estate, and makes it pay. Then a strange thing happens, but what, the picture itself which opens at the Star Theatre to-day, will disclose. Roy Barnes plays the leading male role.

**Gen't's good English Spats, at SMALLWOOD'S.—Jan23,tf**

Relieve That HEADACHE MUSTEROLE Gently Rub With

## SMALLWOOD'S BIG 3!

### Big Holiday Attraction at the Nickel

ERNEST PASCAL'S WONDERFUL STORY "THE DARK SWAN."

The popularity of physical beauty on one hand and the dreary loneliness of the plain girl, is the absorbing theme of "The Dark Swan," translated onto the screen from Ernest

Pascal's "best seller," which will be offered movie patrons by the Nickel Theatre, beginning to-day.

With his vivid pen Ernest Pascal has painted the deep struggle of the plain sister, whose charm lies in her brilliant mind and sweet disposition as opposed to her more beautiful sister, who is given love and adulation with a lavish hand, for no other reason than that she possesses what her sister has not—"sex appeal."

Both sisters go their separate ways—one gay and filled with roses, the other grey and weary—until Lewis Dike comes along to complete the triangle. Both Eve and Cornelia want his love, but Dike, notwithstanding his sympathetic affection for the "dark swan," is swept off his feet by the gorgeous Eve, whom he marries, only to find the truth of the homely saying that "all is not gold that glitters."

In the photoplay that was produced by Warner Bros., from Mr. Pascal's novel, Marie Prevost, with her beauty, will portray the colorful cock sister to Cornelia, who will be interpreted by Helene Chadwick, loved by fans for the wistful case of her personality. The main case will be none other than Blue, while Lilyan Tassman, Rankin, Mary McLaren, John Vera Lewis and others complete the cast of "The Dark Swan," which is directed by Millard Webb.

—By Bud Fisher

### Just Folks

By EDGAR GUESS

you are talking fame and you are young and have a big, bold, and I'm talking friends and a ship—

—That's a sign I'm getting on, are talking deeds of valor, achievements and success, and I don't doubt you think I'm just for talking helpfully.

Well, I've lived for fame and served them both and I've thought to think them all together when I was a lad like you, and when some old-fogey says words about the joy of life, just put him down as a crank seeking nobler ends.

With must fight and try to seek new goals at every turn, from him but from experience the truths of life we learn, when all the fighting is over, battle's lost or won, men want to count the ships and the good have done.

have we thought and have we helped the could have lived among our influence for good? we love as well as go, these are what we find when at last we're going.

### Willard Storage Battery Co.

CLEVELAND, OHIO

Programs Eastern Standard WTAM—Cleveland—28.4 onday, Feb. 16th, 1925.

6:00 to 7:00 p.m.—Willard Storage Battery Co. and his Royal Canadian.

8:00 to 10:30 p.m.—Willard Storage Battery Co. and his Royal Canadian.

concert program by the Willard Storage Battery Co. and his Royal Canadian.

Monday, Feb. 17th, 1925.

6:00 to 7:00 p.m.—Willard Storage Battery Co. and his Royal Canadian.

Dinner Music by the Willard Storage Battery Co. and his Royal Canadian.

after Concert Orchestra.

recitation of Maurice Spaulding.

Tuesday, Feb. 18th, 1925.

6:00 to 7:00 p.m.—Willard Storage Battery Co. and his Royal Canadian.

8:00 to 10:30 p.m.—Willard Storage Battery Co. and his Royal Canadian.

concert program by the Willard Storage Battery Co. and his Royal Canadian.

Wednesday, Feb. 19th, 1925.

6:00 to 7:00 p.m.—Willard Storage Battery Co. and his Royal Canadian.

8:00 to 10:30 p.m.—Willard Storage Battery Co. and his Royal Canadian.

concert program by the Willard Storage Battery Co. and his Royal Canadian.

Thursday, Feb. 20th, 1925.

6:00 to 7:00 p.m.—Willard Storage Battery Co. and his Royal Canadian.

8:00 to 10:30 p.m.—Willard Storage Battery Co. and his Royal Canadian.

concert program by the Willard Storage Battery Co. and his Royal Canadian.

Friday, Feb. 21st, 1925.

6:00 to 7:00 p.m.—Willard Storage Battery Co. and his Royal Canadian.

8:00 to 10:30 p.m.—Willard Storage Battery Co. and his Royal Canadian.

concert program by the Willard Storage Battery Co. and his Royal Canadian.

Saturday, Feb. 22nd, 1925.

6:00 to 7:00 p.m.—Willard Storage Battery Co. and his Royal Canadian.

8:00 to 10:30 p.m.—Willard Storage Battery Co. and his Royal Canadian.

concert program by the Willard Storage Battery Co. and his Royal Canadian.

### Majestic To-Night

"WOMEN WHO GIVE"

Another Super Special Novel Play

Few of us there are who would not be a tale of the woman who goes down to get her share of the world, and who is bound to get it. The story is told in the most dramatic and thrilling manner. The story is told in the most dramatic and thrilling manner. The story is told in the most dramatic and thrilling manner.

Most of the new show "crushed" from the sharp up in the front.