

RADIO PROGRESS SEEN IN TUBES

Broadcasting Brings Rapid Changes—Less Current Is Required

CHICAGO, Oct. 12 (AP)—Properly termed the heart of the set, vacuum tubes have kept pace with the speedy progress made by the radio receiver as a whole. Models of detecting and amplifying devices that appeared shortly before the days of broadcasting today would hardly be recognized as radio tubes.

Old Ones Outworn
While the early instruments were cumbersome, their delicacy required that they be carefully handled. Sometimes they performed, but more often their life was short. Some of them contained a double filament, one to be used in case the other burned out. In addition some did not have a base, merely having protruding wires to be soldered to the wiring of the receiver. Broadcasting, which really gave the impetus to radio, has brought rapid changes in the tubes. The current consumption of the earlier types was heavy, being one ampere per tube. A three tube set then would draw as heavily from the storage battery as does the modern twelve tube outfit.

Filament Changed
One of the first great changes was the design of a filament that would not require so much current. This model cut the consumption to one quarter ampere and has become the modern standard. With the changes in the design of the filament, other improvements were incorporated, such as the replacement of the old type metal base with one made from bakelite. Also the contact prongs at the bottom of the tube were lengthened to provide a better socket connection.

Further efforts saw the production of special amplifiers and detectors. Included were the so-called power tubes, which, with higher plate voltage, gave greater volume. The power tube is intended largely for use as an amplifier. In addition there have appeared improved detector tubes whose principal purpose is greater sensitivity, with an increase in volume.

Use Less Power
While all of the larger types require five volts and are intended for operation from a storage battery or its equivalent, similar progress has been made in the development of an instrument intended for use with dry cells. Two types have been provided, one drawing a voltage of 1.1, while the other consumes but 66 milliamperes on three volts. Lower tubes of this type also have been produced. Attempts have been made at elimination of the filament lighting battery providing direct current by the design of a tube operating from alternating current through a voltage stepdown transformer. There has appeared an improved

ARRESTED



This photo, Mrs. Minnie Kennedy, mother of Alton Semple McPherson, Los Angeles evangelist, as she looked just after her arrest on a charge of conspiring to produce false evidence in connection with the evangelist's "kidnapping" two months ago.

A "C" tube operating at eight volts announced as a big step over an earlier model which required four. Use of alternating current as the heating element required a considerable change in the tube design. Tube construction has been extended so as to include parts of other units used in set construction. Recent announcement told of the successful operation by a German inventor of a tube that not only included the element found in the ordinary tube but other apparatus, such as amplifying and coupling devices.

Raid Hobo Roost To Get Pickers

WENATCHEE, Wash., Oct. 12—Sheriff McMaas and Chief of Police Cochran swooped down on the "jungles" on the Columbia river recently and cleaned out all "mulligan" camps, seeking apple pickers. Fifty or 60 men were found lounging around, some of whom had money and refused to go into the orchards to work when asked. A small per cent of the men were penniless.

Those who had money were taken to the depot and asked to leave. A few did not and were jailed on a charge of vagrancy. Sheriff McMaas said no more loungers or denizens of the "jungles" will be tolerated. In the camps across the Great Northern tracks while the present emergency exists in the apple industry. Regular raids will be made, he said.

Party of Deer Hunters Draw Up Rules and Regulations in Woods

The Observer received an interesting letter late yesterday and reprints it herewith:
"A few days ago Ben Courtney received an invitation by mail to join a small hunting party and to select a hunting ground, which he accepted.

"Rules and regulations were made. First, whenever a man was to meet at a certain place, to be there. Second, if agreed to go a certain way, must go that way. Third, to shoot no small deer—only fine large bucks; and to shoot at nothing else except congar or bear if the hunter should happen to see any.

"Any one that violated these rules was to have his gun taken from him and detailed to take care of camp.
"The regulations passed and agreed upon by all were carried out.
"One of the party killed a small three-point buck and he was excused not to let it happen again.
"When the sixth buck was killed the boss called hunt off.
"One and a half deer for each was held to be enough.
"The hunters parted all happy and remarked 'we will try and meet again next year.'—Old Timer."

La Grande Eagles Invited to Baker

BAKER, Ore., Oct. 12—Baker Eagles are preparing for a special initiation to be held Friday, Oct. 22, when La Grande Eagles will take wing and fly to this city to assist the local members in a big ceremony.

Charles P. Olling, of Portland, deputy grand worthy president for the state of Oregon, will be an official visitor at the initiation and assist in conferring the degrees. Charles Peters, a former Baker boy, now a deputy organizer for the fraternal order of Eagles, is in Baker assisting the local members with plans for the big initiation.

WOMEN IN MOVIES

UNIVERSAL CITY, (AP)—Women hold a high place in the affairs of Universal City. It has one of the few women directors, the only feminine-comedy gag expert, and the only feminine art director. Even the studio restaurant is in feminine hands, for Mrs. John Seiler is its manager.

A woman managed the national swine show at Peoria, Ill. Lots of women are content to manage just one man.

COVE PERSONALS

COVE, (Special)—The chautauqua festival started Friday, Oct. 8, instead of Saturday as at first announced. Monday was the last day.

The school children enjoyed it two days vacation while the teachers attended the Union county teacher's institute in La Grande.

Mrs. Edna Conklin left Friday for Walla Walla, Washington, where she will make her home.

Roy Lay and John Mitchell returned last week from their hunting trip to Lewistown, Ida.

Mr. and Mrs. Lincoln and their nephew, Arthur Spathe, of Cleveland, O., left Thursday by auto for Western Oregon.

Sale at Wallowa Is Well Attended

WALLOWA, Ore., (Special)—The public sale held at Gordon Martins farm west of town Saturday, was fairly well attended, most of the stock is said to have sold for very good prices, one large span of young horses selling for \$71.00, several grade jersey cows were sold at prices ranging from around \$40 to \$45 each, some wagons and other farm machinery were also sold. W. M. Brooks who has rented a farm near Island City, and intends to move there soon, bought four young grade jersey cows to the sale, which were sold at private sale to E. K. Hunter, for \$70 per head. Mr. Hunter is buying them for use in his dairy. Good milk cows are in very good demand in this county, many farmers both large and small are rapidly turning to the dairy industry as being one of the surest and best paying propositions to be followed.

PORTLAND, Ore., Oct. 12 (AP)—Storm warnings were ordered today along the coast north of Cape Blanco. Strong northeast winds starting tonight were forecast by the weather bureau, for Oregon and Washington.

EXPENSES CUT IN HALF

OKANOGAN, Wash., Oct. 12—The current expense levy for Okanogan county will be cut from 8 mills to 4 mills when the county commissioners finally set the millage for 1926 taxes. An 8-mill levy had been made for years.

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