

MACHINE TO MAKE POLAR CAKES IS BEING PERFECTED

A machine for the making of polar cakes is now being perfected at the plant of the Beaver State Motor company. P. A. Combs, president of the company, and an engineer whose name has not yet been revealed, are the inventors of the machine on which patents are being applied for.

At present, the well-known polar cake, which is put out by a well-known Portland ice cream concern is made almost entirely by hand. One hundred people are employed to cut the ice cream into pieces, refrigerate it to a required hardness and then dip it into melted chocolate. The output is 40,000 cakes in 24 hours.

It has been estimated that the machine being perfected by Mr. Combs and his associates will make 25,000 of these cakes in eight hours with only one-fourth the number of persons employed.

The new machine is about 15 feet long and is made up of over 5,000 parts. The perfected machine will require 500 pounds of malleable iron, besides brass and other metals.

The cakes of ice cream are put on a link belt which carries it for a short distance where saws cut off two slices at a time. The slices then are caught by a pair of hooks resembling miniature ice hooks which carry them to a container filled with melted chocolate. As soon as eight of the burdened hooks are over the container the machine automatically lowers the eight into the chocolate where each cake is covered with three-fourths of an ounce of chocolate. As soon as they are dipped they rise again and pass through a refrigerator which cools them off. They then reach the end of the machine and automatically drop off into pans ready to be carried away. The entire process is completed without a touch of the human hand.

Many things could be told of the advantages of the new methods over the present one used. The sanitation of the process is much improved. The many cases of pneumonia which are said to occur among the workers in the polar cake plant will be avoided because of the fact that workers will not be required to handle the frozen ice cream or remain in the refrigerator rooms.

A demonstration is being planned to take place in the near future to try out the new machine. All the tests that have thus far been made indicate its complete success but the demonstration will definitely prove whether it is or not.

The Portland Chamber of Commerce is much interested in the invention.

PROPOSED INCREASE IN WATER RATE TABLED

The ordinance to increase the water rate in the city of Gresham to a minimum rate of \$1.25 a month for each family was brought up for its last reading at the meeting of the council last Friday evening.

The issue was hotly discussed by the councilmen. Tom Howitt took the stand in opposition to the measure. He said he could see no reason for raising the rate as the city is getting enough for the water.

After considerable discussion it was found that it would be impossible to come to any decision. The ordinance was, for this reason, tabled indefinitely.

United States Royal Nobby chain or usco tires are good tires. W. A. Hessel Agency.

A PROCLAMATION.

Know all Men, Women and Children by These Presents:

THAT, Whereas the NATIONAL CLEAN-UP and PAINT-UP CAMPAIGN has resulted in many advantages to community life throughout the United States;

In safeguarding HEALTH;
In promoting THRIFT;
In furthering FIRE PREVENTION;
In stimulating CIVIC PRIDE; and
In making the "HOME AND CITY BEAUTIFUL";

NOW, THEREFORE, Be it known that plans have been perfected for a thorough Clean-Up and Paint-Up campaign in

Gresham, May 15, 1922.

Next week marks the opening of a real campaign of persistent and constructive effort in cleaning up and keeping it up. In this worthy movement we urge each citizen to do his or her part to make our community CLEAN, HEALTHY, THRIFTY, SAFE and BEAUTIFUL.

Signed, K. A. MILLER, Mayor.

LIQUOR FOUND IN RAID OF TWELVE MILE HOUSE

A supposedly peaceful investigation of the Twelve-Mile house early last Sunday morning threatened to be an exciting one when the Portland deputy sheriffs Christofferson, Wolfe, Beeman, Schirmer and Hurlburt, members of the party, were confronted by the muzzle of a revolver in the hands of A. L. Chapman, special policeman.

When asked for an explanation for his actions and also why he was off his beat, Chapman said that someone had stolen his overcoat and he thought they were headed for the 12-Mile house. For this reason, he had hired an automobile to follow in pursuit. Deputy Sheriff Wilson was also said to be close behind Chapman on a motorcycle eager to find out why the car had been traveling about 50 miles an hour. Chapman returned after a short parley to Montavilla.

The investigating party then continued their work which was merely a part of a series of inspection tours to all roadhouses in the county under the opinion of Attorney Stanley Myers that the county commissioners have authority to regulate dancing in roadhouses. Heretofore, owners have held that they did not operate public dance halls, arguing that they collected merely for meals and that if guests wanted to dance it was their own affair. With the exception of the old Homestead at Rockwood, the officers reported all roadhouses were meeting the new requirements.

Arrests, however, were made at the 12-Mile house after some liquor had been found on tables and behind the bar. Ray Herring, the proprietor, was arrested on a charge of maintaining a nuisance and held under \$500 bail. H. Leader and Robert Barry were released as witnesses under \$50 bail. An order was also made for the owner of the old Homestead at Rockwood to appear on a charge of running a dance hall without a license. About a half dozen couples were said to be in the 12-Mile house but none of them were drunk.

As the deputies' car was returning to Portland along the Base Line road through the Montavilla district, they were stopped by Chapman, gun in hand on the excuse that their lights were bright. Tried to a finish and suspicious of his actions, the officers took him to headquarters with them where he will face several charges.

UNION HIGH WILL HAVE MOVIE SHOW

Next Friday evening, May 12 a moving picture show will be given in the high school assembly hall at 8 p. m. Mr. Rutherford will have charge of the show. There will be local films of high school life, which were taken by W. H. Rutherford. Also various highway scenes will be shown, and a drama and comedy. Price 25c for adults and 15c for children. Everyone is invited. The proceeds of this entertainment will be placed in a sinking fund to purchase either a moving picture machine or a radio. All this helps to make a better, bigger union high.

Mr. and Mrs. H. C. Larson and Mr. and Mrs. Percy Larson were Sunday guests at the home of Morris Wilmarth and family where they all enjoyed a chicken dinner.

A regular meeting of the Security Benefit association will be held Wednesday evening, May 10 in Metzger's hall.

Gravel and Sand. In carload lot or retail, delivered or haul it yourself. Phone 79x. J. H. Hoss.

RADIO DEMONSTRATION AN AID TO RADIO FANS

The radio demonstration which was given in the Grange hall last Friday evening was well attended. W. C. Hefton, industrial power engineer of the P.R.L.&P.Co. was to have been present to give a talk on radio but he was taken ill and was unable to be present. J. D. Scott, commercial engineer of the P. R. L. & P. Co. was sent in his place. Mr. Scott read an article that had been prepared by Mr. Hefton, of which the following is an excerpt:

"One of the wonderful possibilities of the radiophone is the bringing of the people living in smaller cities and rural communities into closer touch with what is going on in the world and giving them all of the advantages enjoyed by their brethren in the larger cities. Today the whole of America is being swept by a radio craze, little thought of a year ago, the people of this country have gone simply insane over it. It's fascination and wonderful possibilities have fired the popular imagination. It has created a demand for any old thing that will receive radiophone speech and music. Such a situation offers an excellent opportunity for the so-called radio expert to sell to the unsuspecting public a lot of obsolete junk; and some day when the disillusioned public finds that it has been bunked there is liable to be a reaction and a refusal to buy until the manufacture of radio equipment reaches a more stable basis.

Nearly every large daily newspaper in the country has a radio column and in most instances these are conducted by reporters who have a superficial knowledge of radio and as a result a mass of gross misinformation is being given out. This is a deplorable condition and a situation that should be rectified. The radio telephone is passing through an evolutionary period and a few years will see many changes and wonderful improvements in apparatus and it is only the very best of the present apparatus that will survive.

Radiophone broadcasting stations for the most part at the present time are being operated by dealers in radio equipment and manufacturers to stimulate the sale of apparatus, by newspapers who wish to feature sensational publicity and in a few instances by private individuals. These stations are expensive to install, maintain and operate and it is likely that they will be discontinued as soon as the craze subsides. The question then arises as to who will operate broadcasting stations. It is the opinion of some that the government will either have to operate these stations as a governmental function or as a governmentally regulated monopoly, for the broadcasting of information of all kinds will soon become as much of a necessity as good roads.

At the present time there are four radiophone broadcasting stations being operated in Portland. These stations have a regular broadcasting schedule covering every night in the week. The material sent out consists of an industrial news report, late press dispatches, baseball score, United States Public health bulletins, lectures, music, sermons, etc., and many other things of general interest to the public. It is no longer necessary to go away from one's home for an evening's entertainment, instead just put on the phone and listen in on the radio."

Some of the perplexing problems which puzzle amateur radio fans were explained by J. H. Hallock said

by Mr. Scott to be one of the best radio experts in the northwest. Mr. Hallock has been in radio work for 15 years or more, during which time he has been an operator on board ships, a commercial operator of land stations, and a Naval radio inspector for the government. He has designed and installed a number of commercial radio telephone and telegraph stations. Mr. Hallock is of the firm of Watson & Hallock, dealers in radio electrical supplies located in Portland.

Everyone is familiar with the motion set up on the surface of a still body of water by the dropping of a stone into it. The stone causes ripples which go through a complete set of motions which are said to be cycles. The number of cycles gone through per second is the frequency. A cork on the water will rise and fall with the ripples but the motion is not regular but if the cork were fastened to a limb of a tree it would take on a regular motion.

The human ear is responsive to sound frequencies up to a few thousand cycles per second but a radio wave travels in the neighborhood of 1,000,000 times per second. For this reason a detector is necessary. The simplest arrangement by which one can hear for a distance of from 10 to 20 miles is by using a crystal detector. This is the cheaper kind and is not guaranteed to be entirely satisfactory.

The particular type of wave which propagates radio energy is an electro magnetic wave. There must be some means by which this electro magnetic will be radiated. This is the work of the antenna which are the copper wires that can be seen elevated in the air. It is best to put up about four wires from two feet to three and a half feet apart using Nos. 12 and 14 copper wire. The antenna should not be more than 200 feet long but the higher the greater proportion of them is in the air the better one can hear. Each connection should be soldered or a scraping sound will arise when the wire begins to corrode. It is not advisable to use aluminum wire because it is hard to solder.

The government has made a ruling to the effect that the instruments of all privately owned instruments be adjusted so that electrically its natural period of vibration will be 360 meters wave length. Shops at sea are allowed 600 meters. Sound in traveling does not go in a straight line. It rises and falls. A wave length is the distance from hump to hump.

The portion of a radio receiver which changes the wave length is called the tuner. Suppose that "A" station transmits on a wave-length of 200 meters and "B" on a wave-length of 360 meters. By adjusting the tuner until the constants of the receiver make it electrically resonant to a 200-meter wave or a 360-meter wave, either of the two stations can be picked up simultaneously. This is the reason that more than one transmitter can be operating at one time and yet only one can be heard on a receiver without interference from the other.

In order to use a horn so that the sound can be heard in the room it is necessary to have an amplifier to reproduce the sound.

What! When! Where!
What—Penny carnival! When—May 26! Where—Union High school! Come on, let's go! Fun, laughter, prizes.

Five acres of land in Gresham for rent. H. W. Cooley, phone 51x2.

WORK UNDERTAKEN BY GRESHAM CLUBS

Gresham boys and girls are enthusiastic workers in a number of clubs which have been organized by Miss Ethel Calkins. The names of the clubs explain the purpose for which they are organized. They are the Sunshine Sewing club, Weona Cookery club, Home Making club, Pig club, Garden club and Poultry club. Each organization holds a meeting on Thursday afternoon either at the home of their leader or at the grade school. The last one held was on the afternoon of April 27.

The leaders of the Sunshine Sewing club are Mrs. Cecil Metzger and Mrs. B. W. Thorne. It is a standard club. The officers are president, Mary Lambert; vice president, Kathryn Metzger, and secretary, Trella Howell. Other members are Gretchen Moore, Gladys McMurry, Winifred Bechill, Anna Brunner, Ruth Sterling, Eugenia Bacon, Alta Wihlon, Helen Kelly, Beatrice Anieker, Vernon Nelly, Betty Thorne and Helen Berry. All the girls are looking forward to a good social time when their work has been completed. The present organization is called Division 1. All the girls who belonged to Division 2 have moved away or finished school. When Division 2 was dissolved, the club had \$6.40 in the bank. It was voted to give this money to Mildred McKinney to help pay her expenses in attending summer school.

The Weona Cookery club have as their leader, Mrs. C. J. Lundquist. They meet at the leader's home every two weeks and learn to make one or two dishes. At the last meeting they made a jelly roll cake and some salad dressing. The club is a standard one. The officers are, president Nellie Calkins, vice president, Margaret St. Clair and secretary, Florence Hill. Other girls who belong are Alice Shelley, Regina Hammar, Beth Zimmerman, Alice Johnson, Margaret Mathews and Irma Gill. The girls held a candy sale at the grade school on last Tuesday to raise money toward a summer school fund. They have made plans to have cooked food sales in the near future. The Home Making club had a meeting one day last week, but only three members were present. Mrs. Albert Hisey, their leader, was ill and could not be present. Helen Hisey will attend summer school as a reward for winning the championship in club work. Helen Maxwell is looking forward to attending again this year. The officers of the club are president, Helen Hisey; vice president, Helen Maxwell and secretary, Mildred Metzger. Mildred McKinney and Florence Hill are also members.

The Pig club is made up of boys from Gresham and also some from Lynch district. They call themselves the "Trio Champion Pig club." Unlike other pig clubs, these boys have chosen several breeds of hogs which are Chester Whites, Berkshires and Duroc Jerseys. J. P. Lynch is the leader. Leslie Lynch is scouring the states for a pig to raise for breeding stock. He wants the best in the big type of the O. I. C. stock. He tried to get one from Cass Nichols but there was none to be had. The club boys have created officers for each one of their members. The president is Leslie Lynch; vice president, Frederick Beechill; secretary, Alton Kaiser; treasurer, Thomas Beechill, and reporter, Elmer Zenger. The club is a new one. The boys held their second meeting at Mr. Hall's office last Friday.

The Poultry and the Garden clubs have already been written up under individual heads. The Poultry club will take up poultry judging. The Gresham and Cedar clubs are planning to take a trip on the highway and visit Mr. Raney's poultry farm at Corbett some time in the near future. An invitation has been sent to Mr. Cosby, O.A.C. poultry extension specialist, to come the latter part of May and train the boys on poultry judging but no answer has as yet been received. The Garden club is not a standard one yet but the members are such wide awake boys that

U. H. S. WILL HOLD MAYDAY FESTIVAL ON WED., MAY 10

(By High School Reporter.)
The Freshman class of Union High School No. 2, under the direction of Mrs. Evans will present the annual May pageant tomorrow Wednesday, May 10th at 1:30 p. m. on the Stapleton athletic field. No admission charge will be made and the parents and patrons are cordially invited.

The program and persons participating are as follows:
Fairies: Agnes Lundquist, Vada Anderson, Fern Burton, Florence Kern.

Spirit of Wilderness: Willene Botkin.

Flowers: Margaret Fitzgerald, Kathleen Bailey, Louise Howard, Lillian Markwart, Ruth Kniefel, Bernice Beers, Eliza Bechill, Mary Kniefel, Francis Horberg.

Indians: Garrett Lyon, Murray Taylor, James Hill, Hallie Jones, Orville Davidson, Wm. McCausland, James Bechill, Grace Welch, Helen Hisey, Mabel Winters, Edith Taylor, Martha Danielson.

Pioneers: Tom Lovelace, Harry Curry, Walter Tillstrom, Leslie Lynch, Wayne Trimble, Mae Long, Clyda Cunningham, Mary Wold.

Christianity: Marie Olson.
Education: Maxine Thomas.
Music: Ida Mae Burgess.
Art: Wilma Chase.

War: Roy Rich.
Soldiers: Stafford Dowsett, Byron Bancke, Ernest Karlen, Arthur Eddy, Arthur Nasshahn.

Sailors: Wm. Satterstrom, Clair Stockton, Robert O'Donnell, Phillip Gran.

Red Cross: Ethel Moffitt.
Peace: Geneva Simonsen, Barbara Conely.

Spirit of Patriotism: Willene Botkin.
Clown: Wellesly Taylor.
Dutch: Archie Peterson, Harold Carlson, Florence Arnot, Stella Weise.

English: Ina Smith.
French: Helen Hammond.
Scotch: Rinar Mattson, Edward Stubbs, Agnes Dickson, Gertrude Sharkey.

Swedish: Clara Johnson.
Russian: Cecelia McMains.
Japanese: Edna Beers, Joyce Kidder.

Irish: Annie Moffitt.
Gypsy: Helen Moore.
Petite Coquettes: Helen Lawrence, Francis Dahlquist.

Last Wednesday the chemistry class, accompanied by their teacher, Mr. Campbell visited the gas plant in the Gasco building and the Palm Olive Co. in Portland. At both places the officials were very courteous and took great care in explaining to the class the methods of manufacturing and preparation. It was an interesting trip and very profitable as a practical demonstration of the class work.

The game of baseball with Estacada proved to be successful for U. H. S. We came home with a score of 17-0 in our favor. A car was chartered and the students went with the team. We play a return game with Estacada (tomorrow) Wednesday, May 10, after the May day exercises. Friday, May 12 we play Oregon City on the Stapleton athletic field. The baseball season has been one of great interest thus far this year. We have won three games out of four and we hope our colors will stay that high the remainder of the season.

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It is expected they will soon win that distinction.

Keeping His Eye on Things



RADIO

On Wednesday evening we expect to have our Radio Receiving Apparatus complete and will give a street Radio Concert in front of the Electric Building, at Gresham, Oregon, from 7 to 10 p. m.

The best of the concert will be between seven and eight o'clock.

For the Best Radio Sets, Supplies and Service

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