

How Movies Work

Liberty Theater Operator Tells System of Projection.

Immense increase in popularity of motion picture during the past few years in all countries is one of the most striking features of the day.

Motion picture is now far in advance of any other form of entertainment. It attracts all classes and draws a large audience that is beyond belief.

Other country however, do not have quite as good a hold on the favor as in the United States.

When with the millions that pay for the movies daily very few people safe in saying 90 per cent of the public have any conception as to how the motion picture is put on the screen.

You have all at some time or other heard your friends say that their favorite picture is not really one picture but is made up of thousands of separate photographs.

The average performance at the Liberty consists of about 9000 feet of film which makes up the various subjects such as Pathe News, Feature Comedy.

There are 16 separate photographs to each foot of film you can see at each performance instead of looking at a picture you have looking at 135,000 separate and distinct pictures.

In order to produce the effect of motion each individual picture is stopped absolutely still at the aperture for 1-16 of a second for exposure on the screen and then the following picture is moved into place over the aperture.

During this period of movement all light from the powerful electric lamp is absolutely shut off from the screen by means of a revolving shutter, the shutter being similar to the blades of an electric fan except they are flat and have only from two to three blades, according to the electric current, viz. A. C. or D. C.

The human eye is a peculiar instrument. It will transmit to the brain a certain number of separate impressions per second, as separate impressions become dissolved or rather melt into each other so that the effect of continuity.

What is called "Persistence of Vision" and it is this peculiarity which makes motion pictures possible. Motion picture projector is in fact the same as the human eye.

You are standing talking to friends or viewing anything in a picture did you ever stop to think that you are only seeing that certain object approximately 5-6 of the time you are looking at it, the other 15 being total darkness before your eyes.

This is caused by the closing and opening of your eyes. Such is the case with the motion picture projector with regards to the automatic shutter.

The shutter cuts off the light from the screen as the small separate photographs are pulled into place. Each photograph being slightly different from the other and the constant starting and stopping of the intermittent movement makes the picture appear as one continuous motion picture.

The modern projection rooms of today have from two to four machines. The arc lamps of the machines at the Liberty consume 60 amp. at a pressure of 65 volts which is equivalent to 3900 watts per hour and at 8 hours a day would be 31,200 watts consumed in a day.

Now that 1000 watts equals one kilowatt this makes a little over 31 kilowatts of electric current consumed each day for the projection machines only.

Now the average home uses about 30 kilowatts a month, so you can see that the amount of current used to project the motion pictures at the Liberty for one day would supply a home for over a month.

By the light reflected from the powerful lamps to the small photographs which is stationed at the aperture the picture is again reflected through a set of lenses and magnified many thousand times its original size before taking its position on the screen.

You can get a small conception of the magnifying power of the lenses if you stop to think that the picture as it is on the film is only .6796 inch high by .9062 inch wide where it appears on the screen to be about 18 feet high and 18 feet wide.

Many people of today say they don't go to movies on account of the pictures hurting their eyes. That has been one of the greatest difficulties to overcome in the motion picture industry, but it seems as though that even this difficulty has at last been solved.

In the old days when the movie industry was in its infancy it was thought that anything as long as it was white and had a smooth surface would reflect a picture and give satisfaction and entertainment to the patrons without them feeling the effect in the way of eye strain and eventually have to give up going to movies.

But those days are gone forever and in the place of the old white wash screen has come the new Minutia Gold Fibre screen, the same as is now installed in your theatre here.

Mr. Long feels proud to offer to his patrons the best that can be had in the way of a motion picture screen and equipment.

This screen was made especially for the Liberty theatre and through the perfection of workmanship we feel sure that our patrons viewing a performance from this screen will not only be pleased with the clear cut definition of the picture but also the elimination of practically all eye strain.

Moke—"Does yuh really love me or does yuh yeh' yuh do?" Moka—"Yes, indeedly. Honey, I really loves yuh; I ain't done any thinkin' yet."

STUMP DEMONSTRATION

(Continued from Page One)

old char-pitting process and does away with its great fault. Any school boy who can start a fire in the kitchen stove can successfully set a stump afire with this new appliance. Briefly described, this appliance, called a stump burner, consists of two major parts—a burner and a hood—made of heavy reinforced cast iron. The burner has a small draft door in front, a shoulder for carrying an ordinary stovepipe on top, and is open at the back and on the bottom. A piece of two-inch iron pipe ten feet long and another piece of the same four feet long, together with a couple of joints of ordinary stovepipe, completes the equipment.

The procedure is simple. First, with the axe, a hand breadth of bark is blazed away at the base of the stump until the bright sound wood is reached. The long pipe is then laid on the ground pointing directly through the heart of the stump to ground level on the opposite side. The end of this pipe is placed within two or three inches of the bright wood where the bark has been cut away. The furnace is then placed over the pipe with the open back against the stump. Next the burner is filled with a few shavings of pitchwood or other kindling and with chunks of bark bark from the stump itself with the axe or a light chisel-bar. The furnace is then banked in and sealed to the stump with shovels of earth. The stovepipe is placed and the fire then lighted. With draft and chimney the fire burns as briskly as in any other stove. By removing the stovepipe the furnace may easily be restoked several times and when a good bed of coals begins to burn against the stump itself a shovel of earth is placed over the draft door, thus closing it up.

The suction up the chimney now draws the air through the long draft pipe, the end of which lies red hot in the bed of coals in the furnace. The result is a blast of flame shooting off of the end of the draft pipe against the stump. Steadily this blast burns its way through the stump to the opposite side the pipe occasionally being pushed in as the fire advances.

Hood Now Put in Place When the blast from the draft pipe begins to burn through on the side of the stump opposite the furnace, the open end of the second part of the appliance, the hood, is placed over the burned opening and banked in and sealed to the stump with earth, the bank then being continued around the stump. With an iron hook the furnace is then pulled away from the stump and the piece of short draft pipe replaces the long pipe the earth bank being closed in over the opening in the stump left by the furnace. In other words, the furnace is now replaced with a short draft pipe which extends through the closed bank into the interior of the stump. The stovepipe taken from the furnace is now placed on the shoulder on the hood on the opposite side of the stump. The stump has now been converted into a stove, furnishing its own fuel, with a draft on one side and a chimney on the other and banked in with earth all around to retain the fire and heat. The result is certain. Soon the entire interior of the stump is thoroughly afire with a great mass of glowing coals.

Now the hood and short draft pipe are removed and the stump finally banked in and then finished as a char-pit.

The secret of successful char-pitting, the object of which is to burn out the roots below plowing depth is in maintaining a slow, charring fire, producing a glowing mass of coals in the heart of the stump from which the heat radiates and drives the fire down the roots. Rapid combustion would consume the central part of the stump above, before the roots were thoroughly fired. Rapid combustion is prevented by keeping the stump banked in with an extra shovel of earth when ever an opening in the bank appears. Prevent the access of air to the charring fire except by slow seepage through the earth bank and no difficulty is found in preventing too rapid combustion. Gradually, as the fire burns to the outer end of the stump, the stump sinks in, replenishing the bed of coals below. As this occurs the earth bank is pushed in so that the stump is kept completely, but not too tightly, covered. Once the upper part of the stump has "melted" in or fallen to one side and the final "banking down" completed, little further attention is required. For several weeks thereafter the slow charring fire steadily creeps down the roots, its glow drying out the wet wood ahead of the fire so that the fire can take hold. This continues until the diameter of the root becomes so small as no longer to furnish sufficient fuel to maintain the coal mass. By this time, however, the root is burned away well below plow depth and fifteen or twenty feet from the stump.

Pick over carefully a quart of small, white beans; let them soak over night in cold water; in the morning wash and drain in another water. Put on to boil in plenty of cold water with a piece of soda the size of a bean; let them come to a boil, then drain again, cover with water once more, and boil them fifteen minutes, or until the skin of the beans will crack when taken out and blown upon.

Drain the beans again, put them in an earthen pot, adding a tablespoonful of salt; cover with hot water, and scoring the rim across the top, a quarter of an inch apart to indicate where the slices are to be cut. Place the pot in the oven, and bake six hours or longer. Keep the oven a moderate heat; add hot water from the tea-kettle as needed, on account of evaporation, to keep the beans moist. When the meat becomes crisp and looks cooked, remove it, as too long baking the pork destroys its solidity.

Remember when they used to reach around to the back and raise their skirts a little as they stepped on the wet crossings?

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People who cannot afford a trip around the world may be able to gather some pointers from Jiggs and Maggie.

Classified Ads

FOR SALE—2 Hitlers Chester White pigs, 4 miles S. of Barlow, Needy phone, A. F. Yoder.

FOR SALE, (Sandy, Ore.) Two lots, seven room house, all plastered. Full size basement, garage, chicken house, some fruit. Inquire real estate office, Sandy, Oregon.

LEGAL NOTICES

SUMMONS

In the Circuit Court of the State of Oregon for the County of Clackamas.

Alice S. Endicott, Plaintiff, vs. Fred J. Endicott, Defendant.

To Fred J. Endicott, the above named defendant.

In the name of the State of Oregon, you, Fred J. Endicott, are hereby required to appear and answer the complaint filed in the above entitled suit on or before the 9th day of February 1923, that day being six weeks from the first publication of this summons and if you fail to appear and answer herein plaintiff will apply to the above named court for the relief prayed for in the complaint on file herein to which reference is hereby made and more particularly as follows: For a Decree dissolving the bonds of matrimony now existing between the plaintiff and defendant on the grounds of desertion, and for the custody of the minor children to-wit: Wauneta Endicott and Florence Endicott and for such other relief as may be equitable.

This summons is served upon you by publication thereof for not less than six successive weeks in the Oregon City Enterprise, a paper of general circulation in the County where the suit is brought and published at Oregon City, County of Clackamas, State of Oregon, and by order of the Honorable J. U. Campbell, Judge of the above entitled court, which order is dated on the 27th day of December, 1922.

The date of the first publication of this summons is the 29th day of December, 1922.

The date of the last publication is the 9th day of February, 1923.

MICHELLE AND GRAHAM, Attorneys for plaintiff, 518 Cham. of Com. Building, Portland, Oregon.

NOTICE OF SALE OF REAL ESTATE

In the Circuit Court of the State of Oregon for the County of Multnomah, Department of Probate.

In the Matter of the Estate of Christen Hansen, deceased.

Notice is hereby given that in pursuance of the authority and directions contained in the Last Will and Testament of Christen Hansen, deceased, and of an order of the Circuit Court of the State of Oregon, for the County of Multnomah, Department of Probate, made on the 22nd day of December, 1922, in the matter of the estate of Christen Hansen, deceased, the undersigned, executor of said estate, will proceed to sell, at private sale, to the highest bidder, for cash, Gold Coin of the United States, and subject to confirmation by said Circuit Court from and after the 1st day of February, 1923, at the residence of said Executor, 214 East 28th Street, Portland, Oregon, all the right, title, interest and estate of the said Christen Hansen at the time of his death, and all the right, title and interest that said estate has by operation of law, or otherwise, acquired other or in addition to that of the said Christen Hansen at the time of his death, in and to the following described real property, to-wit:

The North one-half (1/2) of the Southeast quarter (1/4) and the Southeast quarter (1/4) of the Southeast quarter (1/4) and the Northeast quarter (1/4) of the Southwest quarter (1/4) of Section Twenty-eight (28) Township Seven (7) South, Range Three, East of Willamette Meridian in Clackamas County, Oregon.

or any part of said real property. Terms and conditions of sale: Cash, Gold Coin of the United States; 10 per cent of the purchase price to be paid to the executor on the day of sale; balance on confirmation of sale by said court.

Dated this 28th day of December, 1922.

First publication Dec. 29th, 1922. Second publication Jan. 26th, 1923.

C. CHRISTENSEN, Executor of the estate of Christen Hansen, deceased.

SUMMONS

In the Circuit Court of the State of Oregon for Clackamas County.

A. D. Kenworthy & Co., Plaintiff, vs. A. B. Compton and J. W. Compton, Defendants.

To A. B. Compton and J. W. Compton, the above named defendants, and each of you:

In the Name of the State of Oregon; You are hereby required to appear and answer the complaint filed against you in the above entitled suit on or before the expiration six weeks from the date of the first publication of this summons, which date of expiration is fixed by order of the above entitled Court as six weeks from date of first publication; if you fail to appear and answer plaintiff will apply to the Court for the relief prayed for in his complaint, to-wit: Judgment against you and each of you for the sum of one hundred and thirty (\$130.00) dollars, with interest thereon at 6 per cent per annum from October 19, 1920, together with costs, herein.

This summons is published by order of the Hon. J. U. Campbell, Judge of the above entitled Court.

The order is dated December 22nd, 1922.

Date of first publication December 29th, 1922.

Date of last publication February 9th, 1923.

HOWARD P. ARNEST, Address 1210 Yeon Building, Portland, Oregon, Attorney for Plaintiff.

EXECUTOR'S NOTICE Notice is hereby given that the undersigned has been duly appointed by the County Court of the State of Ore-

gon for the County of Clackamas, Executor of the last Will and Testament of Mrs. Mary Norton, Deceased.

All persons having claims against the Estate of the said Mrs. Mary Norton, Deceased, are hereby required to present the same to me, properly verified, as by law required, at the Bank of Commerce, corner of Main and Seventh Street, Oregon City, Oregon, within six months from the date hereof.

Dated this 20th day of December, 1922.

THOS. F. RYAN, Executor of the Last Will and Testament of Mary Norton, Deceased.

NOTICE TO CREDITORS

Notice is hereby given that the undersigned has been duly appointed administrator of the estate of Herman Fischer, deceased, and any and all persons having claims against the said estate are hereby required to present said claims, duly verified as by law required, at the office of my attorney, C. D. Purcell, Sandy, Oregon, within six months from the date of this notice.

Dated December 22, 1922.

Date of first publication December 22, 1922.

Date of last publication January 26, 1923.

EARNEST FISCHER, Administrator of the estate of Herman Fischer, deceased.

C. D. PURCELL, Address Sandy, Oregon, Attorney for Administrator.

NOTICE TO CREDITORS

Notice is hereby given that the undersigned has been duly appointed administratrix of the estate of George Green, deceased, and any and all persons having claims against the said estate are hereby required to present said claims, duly verified as by law required, at the office of my attorneys, Hall & Lepper, within six months from the date of this notice.

Dated December 14th, 1922.

Date of first publication December 22, 1922.

Date of last publication January 19, 1923.

ABBIE GREEN, Administratrix of the estate of George Green, deceased.

HALL & LEPPER, Address 112-115 Citizens Bank Bldg., Portland, Oregon.

NOTICE TO CREDITORS

Notice is hereby given that the undersigned has been duly appointed by the County Court of the State of Oregon, for Clackamas County, administrator of the estate of Celia B. Scott, deceased, and has qualified.

All persons having claims against said estate are hereby required to present them, duly verified, with the proper vouchers, within six (6) months from the date of this notice to the undersigned administrator, at the residence of Velora J. Heacock near Oregon City in Clackamas County, State of Oregon, the address of said Velora J. Heacock being R. F. D. No. 2, Box 74, Oregon City, Oregon.

Dated and first published this 22nd day of December, 1922.

M. D. EARL SCOTT, Administrator of the Estate of Celia B. Scott, deceased.

HILL & MARKS, Albany, Oregon, Attorneys for Administrator.

SUMMONS

In the Circuit Court of the State of Oregon for Clackamas County.

Alice M. White, Plaintiff, vs. Earle L. White, Defendant.

To Earle L. White, the above named defendant.

In the Name of the State of Oregon; You are hereby required to appear and answer the complaint filed against you in the above entitled suit on or before the expiration six weeks from the date of the first publication of this summons, which date of expiration is fixed by order of the above entitled Court as February 2nd, 1923; if you fail to appear and answer plaintiff will apply to the Court for the relief prayed for in her complaint, to-wit: For a decree of divorce forever dissolving the bonds of matrimony heretofore and now existing between plaintiff and defendant, and for such other relief as to the court may seem equitable.

This summons is published by order of Hon. J. U. Campbell, Judge of the above entitled Court.

The order is dated December 16th, 1922.

Date of first publication December 22nd, 1922.

Date of last publication February 2nd, 1923.

E. L. McDUGAL, Address 905 N. W. Bank Bldg., Portland, Oregon, Attorney for Plaintiff.

SUMMONS

In the Circuit Court of the State of Oregon for Clackamas County.

F. W. Gerling, Plaintiff, vs. Blanche V. Warne, (formerly Blanche V. Hurlburt) and W. C. Warne, her husband, Daniel B. Newkirk and Francis L. Newkirk, his wife, Defendants.

To Blanche V. Warne (formerly Blanche V. Hurlburt) and W. C. Warne her husband, Daniel B. Newkirk and Francis L. Newkirk, his wife, Defendants:

In the name of the state of Oregon you and each of you are hereby required to appear and answer the complaint filed against you in the above entitled suit on or before Monday, January 29, 1923, said date being after the expiration of six weeks from the date of the first publication of this Summons, and if you fail to appear or answer for want thereof, the plaintiff will apply to the Court for the relief prayed for in the complaint herein, to-wit: For judgment and decree against the defendant, Blanche V. Warne (formerly Blanche V. Hurlburt) for \$250.00 with interest thereon at the rate of 8 per cent per annum from March 6, 1919, until paid, and for \$14.74 taxes paid by plaintiff, with interest thereon at 6 per cent per annum from March 17, 1922, until paid, and for \$50.00, attorney's fees, and for the costs and disbursements of the plaintiff herein.

This summons is published for six consecutive weeks in the Oregon City Enterprise, a newspaper of general circulation, printed and published in Oregon City, in Clackamas County, Oregon, the date of the first publication thereof being Friday, December

1922, and the date of the last publication thereof being Friday, January 19, 1923, all done in accordance with the order of the Hon. Jas. U. Campbell, Judge of the above entitled court, made and entered of record in this cause on December 4th, 1922.

IVAN C. MARTIN, CAREY F. MARTIN, Attorneys for Plaintiff. Post Office Address: 413 Masonic Temple Building, Salem, Oregon.

NOTICE TO CREDITORS

In the County Court of the State of Oregon for Clackamas County. Department of Probate

In the Matter of the Estate of Arthur E. Bradford, Deceased.

Notice is hereby given: That the undersigned, Mary A. Bradford, was duly appointed Administratrix of the Estate of Arthur E. Bradford, deceased, by the County Court of the State of Oregon for Clackamas County, on November 24, 1922, and that Letters of Administration have been duly issued to her by and out of said Court. All persons having claims against said Estate are hereby notified and required to present them under oath, with proper vouchers therefor attached, within six months from the date of this notice to the undersigned at the office of Malarkey, Seabrook & Dibble, Room 1512 Yeon Building, Portland, Oregon.

MARY A. BRADFORD, Administratrix.

MALARKEY, SEABROOK & DIBBLE, Attorneys for Administratrix. Date of first publication December 1st, 1922.

Date of last publication December 29th, 1922.

SUMMONS

In the Circuit Court of the State of Oregon, for the County of Clackamas.

Rena Allphin, Plaintiff vs. William H. Allphin, Defendant.

To William H. Allphin, Defendant. In the Name of the State of Oregon, You are hereby required to appear and answer the Complaint filed against you in the above entitled suit within six weeks from the date of first publication of this summons, to-wit: within six weeks from the 1st day of December, 1922, and if you fail so to answer for want thereof, the plaintiff will apply to the Court for the relief prayed for in her complaint herein, to-wit: For a decree dissolving the marriage contract existing between plaintiff and defendant. For the custody and care of the minor daughter the issue of said marriage, Charlotte Iron Allphin. For her costs and disbursement incurred in this suit, and for such other and further relief as to the Court may seem just and equitable.

This summons is served upon you by publication once a week for six consecutive weeks in the Oregon City Enterprise, pursuant to an Order of the Honorable J. U. Campbell, Judge of the above entitled Court, made, dated and entered on the 25th day of November, 1922, the date of first publication is December 1st, 1922, and the date of last publication will be January 12th, 1923.

H. OVERTON, Address, Woodburn, Oregon, Attorney for Plaintiff.

NOTICE OF SALE OF GOVERNMENT TIMBER

General Land office, Washington, D. C., November 23, 1922.

Notice is hereby given that subject to the conditions and limitations of the act of June 9, 1916 (39 Stat. 218) and instructions of the Secretary of the Interior of September 15, 1917 (46 B. D. 447), the timber on the following lands will be sold at 10 o'clock A. M. on January 5, 1923, at public auction at the United States Land Office at Portland, Oregon, to the highest bidder at not less than the appraised value as shown by this notice, sale to be subject to the approval of the Secretary of the Interior. The purchase price with an additional sum of one-fifth of one per cent thereof being commissions allowed, must be deposited at time of sale, money to be returned if sale is not approved, otherwise patent will issue for the timber which must be removed within ten years. Bids will be received from citizens of the United States, associations of such citizens and corporations organized under the laws of the United States or any state, territory, or district thereof only. Upon application of a qualified purchaser the timber on any legal subdivision will be offered separately before being included in any offer of a larger unit.

T. 4 S., R. 2 E., Sec. 15, SE 1/4, SE 1/4, red fir, 610 M., red cedar 40 M., none of the timber on this tract to be sold for less than \$1.50 per M.; Sec. 23, SW 1/4, NW 1/4, red fir, 420 M., none of the timber on this tract to be sold for less than \$1.25 per M.

T. 5 S., R. 7 W., Sec. 33, SE 1/4, SW 1/4, red fir, 920 M., white fir, 50 M., none of the timber on this tract to be sold for less than \$1.50 per M. for the red fir, and 50 cents per M. for the white fir.

T. 8 S., R. 6 W., Sec. 17, SW 1/4, NE 1/4, red fir, 750 M., none of the timber on this tract to be sold for less than \$2 per M.

GEO. R. WICKHAM, Acting Commissioner, General Land Office.

SUMMONS

In the Circuit Court of the State of Oregon for Clackamas County.

A. L. Schlosberg, Plaintiff, vs. Fannie Schlosberg, Defendant.

To Fannie Schlosberg, the above named defendant.

In the Name of the State of Oregon; You are hereby required to appear and answer the complaint filed against you in the above entitled suit on or before the expiration six weeks from the date of the first publication of this summons, which date of expiration is fixed by order of the above entitled Court, as January 12th, 1923; if you fail to appear and answer plaintiff will apply to the Court for the relief prayed for in his complaint, to-wit: For a decree of divorce forever dissolving the bonds of matrimony heretofore and now existing between plaintiff and defendant, and for such other relief as to the Court may seem equitable.

This summons is published by order of Hon. J. U. Campbell, Judge of the above entitled Court.

The order is dated November 29th, 1922.

Date of first publication December 1st, 1922.

Date of last publication January 12th, 1923.

LEON W. BEHRMAN, Address 425 Yeon Bldg., Portland, Oregon, Attorney for Plaintiff.

SUMMONS

No. 19128

In the Circuit Court of the State of Oregon for Clackamas County, Department No.—.

George McKilligan, Plaintiff, vs. Rosa Henrietta McKilligan, Defendant.

To Rosa Henrietta McKilligan, the defendant above named; in the name of the State of Oregon, you are hereby required to appear and answer the complaint filed against you in the above entitled cause and court within six weeks of the date of the first publication of this summons, to-wit: within six weeks from Friday, December 8, 1922, and if you fail to answer or appear in this cause the plaintiff will apply to the court for the relief demanded in his complaint, to-wit: a decree dissolving the marriage contract now existing between you and plaintiff.

This summons is published for six consecutive weeks in the Oregon City Enterprise, a newspaper of general circulation, printed and published in Oregon City, in Clackamas County, Oregon, the date of the first publication thereof being Friday, December

1922, and the date of the last publication thereof being Friday, January 19, 1923, all done in accordance with the order of the Hon. Jas. U. Campbell, Judge of the above entitled court, made and entered of record in this cause on December 4th, 1922.

IVAN C. MARTIN, CAREY F. MARTIN, Attorneys for Plaintiff. Post Office Address: 413 Masonic Temple Building, Salem, Oregon.