HOW ASSAYING IS DONE. ' When one of our young friends foolishly hands a nickel over the counter for some black-jack he does it with an names of planets, suns and stars that air of indifference knowing that nickle are away off; but learn little about the in abundance is found in one of our make up of the earth on which we live. adjacent hills. All of this may also There is a name for every rock on which be said of gold. The other day Mr. we tread; yet not one in a thousand Will Q. Brown showed us some quartz knows it. Some of these rocks may be from the Yellow Jacket mine near older than the stars. The history of a Doe creek of this county. As all pebble contains volumes. Max Muller quartz differs more or less in appear. and Agassiz have gone, and are we to ance this was very much unlike any await a happen visit of Dana this way, thing of the kind we had ever seen. or will we look at the rich suggestive The streaks of green indicated thepres- quartz on every mountain with a view ence of copper, so to be sure of it, he of studying it that we with our country rubbed his wet knife blade on the may be enriched! There is more bread green until the steel was coated with and butter in the precious stones of the copper. He also placed the mineral Cascade and Coast ranges than there is in such proximity to the writer's long in all the stars of the sidereal system. probosis that the scent of copper was easily detected. It soon became evident that it was the verdict of the which gave so many people much conassayer to assay the quartz for gold eern, passed congress a short time prior and silver. The lobe was crushed in to adjournment and was signed by Mr. a hand rock breaker that has two large Cleveland. There are some objections iron jaws and an excellent appetite for | ble features in it; but, as they could not hard rocks. Its masticating ability be eradicated without destroying the was simply wonderful. The coarser whole bill, the President concluded to part of the crushed material was then approve the measure rather than cause pulverized on a grinding plate until it a serious injury to the most of the counwas added to furnish carbon for the Coquille \$2,000. reduction of the oxyde, the oxygen of the litharge (oxyde of lead) combining with the carbon and converting the ter the contents of the crucible are in a state of quiet fusion the crucible is taken from the fire and tapped gently ization in this country. To be consistent, the same ban which has been placed upon the Knights in Canada of one hundred and eighty cere dollars and eighty cents (81387.89) due plaintiff and costs \$49.29 and the sum of one hundred dollars for attention of the results of the results and eighty cents (81387.89) due plaintiff and costs \$49.29 and the sum of one hundred dollars for attention of the results are results as a state of quiet function of the results are results as a state of quiet function on the results are results as a state of quiet function on the results are results as a state of quiet function on the results are results as a state of quiet function of the results are results as a state of quiet function on the results are results as a state of quiet function of the results are results as a state of quiet function of the results are results as a state of quiet function of the results are results as a state of quiet function of the results are results as a state of quiet function of the results are results as a state of quiet function of the results are results as a state of quiet function of the results are results as a state of quiet function of the results are results as a state of quiet function of the results are results as a state of quiet function of the results are results as a state of quiet function of the results are results as a state of quiet function of the results are results as a state of quiet function of the results are results as a state of quiet function of the results are results as a state of quiet function of the results are results as a state of quiet function of the results are results as a state of quiet function of the results are results as a state of quiet function of the results are results as a state of quiet function of the results are results

ble are poured into the mould. The lead through difference of gravity sinks through the molten mass and is found in the bottom of the mould. When cooled the button of lead (plumbum) is taken out and hammered in the form of a cube in order to detach any particles of slag that may adhere to it. If the proper proportion of argol (potassium tartrate) has been added in the crucible, the button of lead is ready for cupellation, and is put in a cupel, and, to a disinterested observer, there would appear to be nothing to justify the at. The mouth of the muffle is kept closed by a piece of charceal until the heat. The mouth of the muffle is kept |- News. closed by a piece of charcoal until the lead is melted and fumes of oxyde are seen floating over the surface of the molten mass. The charcoal is then removed and the muffle allowed to ool from a white heat down to a dark red heat. The litharge formed in the cupel should be absorbed immediately and lead fumes arising from the cupel must not be too dense. As the operation proceeds, the cupel is closely watched that the temperature may be kept the same. When the button of lead has been reduced to the size of a large pin head, unless the ore is very rich, small patches of oxyde will be seen rapidly passing over the surface until the button assumes the tints of the rainbow when it is seen to rapidly revolve and change its color to that of the precious metals; then it suddenly ceases rotating and brightens. The resultant button of gold and silver is weighed and its weight noted. The ballances are so exact that the assayers can weigh accurately to tenths of milligrams. A milligrams is a thousandth of a grain; therefore it will be seen that destinctions of less than .0000005 of a troy pound can be accurately made. If the button has the appear ance of silver, it is hammered out between two pieces of paper on the anvil and treated with nitric acid which extracts all the silver, and the gold pres ent remaining as a brown powder. The acid solution is then diluted with water and poured from the brown powder: more water is then added until every trace of the acid solution of silver has been removed. The gold is then heated to a bright redness to drive off all moisture and is weighed. The difference in the weight of the first weighing and second is the weight of the silver. Then the assayer is prepared to make his report. MISCELLANEOUS REMARKS, If the button of lead from the cru-

cible is found too great for successful cupellation it is placed in a scorrifier into the muffle, and the heat increased until litharge begins to form. When the surface of the lead has become covered with litharge, the scorrifier is removed and the contents poured off. If the button is still too large, the oper- IN COUNTY COURT, STATE OF OREGON, FOR ation is repeated until thedesire d size dupois of 2,000 lbs, which contains 29,166 Troy ounces or 29,166 milligram. Therefore it and a milligram are exactly equal in weight. It mat. has been obtained. The assayer's table gold is tried in the fire, it loses nothing from heat. It might be suggested here, that the lives that pass without reproach through fiery ordeals until they have

NOTICE IS HEREBY GIVEN THAT THE county Roard of Equalization will attend at the office of the County Clerk on Monday the 30th day of August 1886, and publicly examine the Assessment Rolls and correct all errors in valuation, dissertion or qualities of lands, lots or other property.

E. C. Sacar, County Assessor.

Address, HENRY CONN, ters not how long nor how often pure

been satisfactorily tried are those in whom the world has the most confidence. There are comparatively very few in our midst in any wise familiar with the mineralogy of this country Our young people go off to colleges and universities and learn much of the

THE river and harbor bill, the fate of

for that purpose. As most of the priations for Oregon rivers, and harbors the city of Roseburg, a good spring of 350 Students. 375 Graduates. quartz in these parts are sulphates, this Yaquina bay, \$75.000; Coos bay \$33,- living water, a very desirable location powdered silica, etc. was placed in a 750; Cascades, \$187,500; upper Colum- for a home. Situate in the eastern hot muffle about twenty minutes until bia, including Snake river, \$10,000; part of the city. For further informa the sulphur evaporated. After the mouth of the Columbia, \$187,500; tion and terms apply to this office of roasting process the powder was suf lower Willamette and Columbia, below Mrs. Bowen. fused with lead to collect the gold and Portland, \$100,000, including \$21,000 silver. In order to convert the oxyde for snag-boat, and \$5,000 to be expenof lead into metalic lead a certain pro- ded on river front of Portland; upper portion of ccude potassium tartrate Willamette, above Portland \$75,000;

The Pope and the Knights.

It is impossible to forsee just how same to volatile carbonic oxyde which far the papal degree against the same to volatile carbonic oxyde which escapes leaving the metalic lead. Afon the ground to collect the lead in one button and the contents of the crucible are poured into the mould. The ble are poured into the mould. The

PRESIDENT CLEVELAND does not appear to scare very much at the senate's rejection of Mathews, the colored recorder of the District of Columbia. He has re-appointed him. By its narrow opposition and hypocritical exposure—the Republican senators have made thousands of colored voters for the Democratic party.

A Safeguard.

The final rapidity with which slight Colds and Coughs frequently developinto the gravest maladies of the throat and lungs, is a consideration which should inpel every prudent person to keep at lend, as a household remedy, a bottle of AYER'S CHERRY PECTORAL.

Nothing cless cives such immediate relief PRESIDENT CLEVELAND does not ap-

The fatal rapidity with which slight Colds and Coughs frequently developinto the gravest maladies of the throat and lungs, is a consideration which should inpel every prudent person to keep at lend, as a household remedy, a bottle of AYER'S CHERRY PECTORAL.

Nothing clse gives such immediate relief and works so sure a cure in all affections of this class. That eminent physician, Prof. F. Sweetzer, of the Maine Medical School, Brunswick, Me., says:—

"Medical science has produced no other aud-dyne expectorant so good as AYEE'S CHERRY PROTORAL. It is invaluable for diseases of the The same opinion is expressed by the well-known Dr. L. J. Addison, of Chicago,

"I have never found, in thirty-five years of continuous study and practice of medicine, any preparation of so great value as AYER'S CHERRY PECTORAL, for treatment of diseases of the throat and langs. It not only breaks up colds and cores severe coughs, but is more effective than anything else in relieving even the most serious bronchial and pulmonary affections."

AYER'S Cherry Pectoral

Is not a new claimant for popular confidence, but a medicine which is to-day saving the lives of the third generation who have come into being since it was first offered to the public.

There is not a household in which this invaluable remedy has once been introduced where its use has ever been abandoned, and there is not a person who has ever given it a proper trial for any throat or lung disease susceptible of cure, who has not been made well by it.

well by it.

AYER'S CHERRY PECTORAL has, in numberless instances, cured obstinate cases of chronic Bronchitis, Laryngitis, and even neute Pneumonia, and has sarrat many patients in the earlier stages of Pulmonary Consumption. It is a iscalidate that only requires to be taken in small closes, is pleasant to the taste, and is needed in every house where there are children, as there is nothing so good as AYIR'S CHERRY PECTORAL for treatment of Croup and Whooping Cough. These are all plain facts, which can be verified by anybody, and should be remaindered by everybody.

Ayer's Cherry Pectoral, PREPARED BY

Dr. J. C. Ayer & Co., Lowell, Mass. Sold by all Druggists.

EXECUTOR'S FINAL NOTICE.

April a commencia con official

To Regulate

FAVORITE HOME REMEDY :

It will Cure all Diseases caused by Derangement of the Liver, Kidneys and Stomach.

If your Liver is out of order, then your hole system is deranged. The blood is apure, the breath offensive; you have adache, feel languid, dispirited and revous. To prevent a more serious contion, take at once Simmons

REGULATOR. If you less sedentary life, or suffer this more serious continues and take Simmons Liver Regula o relieve.

If you wake up in the morning with a itter, bad taste in your mouth,

J. H. ZEILIN & CO., Philadelphia, Pa.

For Sale!

Forty Acres of unimproved land was fine enough to run through a sieve try. It contains the following appro and half in the Corporation limits of

SHERIFF SALE.

In the Circuit Court of the state of Oregon John Rast plaintiff

John H. Shupe administrator of the estate of Henry Wagner deceased Amanda Wagner Carrie Wagner Henry Wagner and Dora Wagner minor heirs of Henry Wagner deceased Chas. Kohn and Naphtaly Kohn partners under the firm name Chas. Kohn & Co. A. L. Todd, S. H. Emerson, Aurelius Todd and Levi Todd defendants.

NOTICE IS HEREBY GIVEN THAT BY VIRTUE of an execution issued out of the Circuit Const.

Shoriff of Douglas county Oregon. NEW THIS WEEK.

1886.-

State Agricultural Soc'y.

SEPTEMBER 13, 1886, And closing the following Saturday

BEST SPEED PROGRAMME.

The hest exhibit of everything ever collected together in

nust be made by 7 p. m. Monday, and all articles must be in place by 10 p. m. Monday evening. Please

SECRETARY, Salem, Oregon

HENRY CONN --:OFFERS:-FORSALE

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New Stage Line.

ROSEBURG TO CAMAS VALLEY

Leaves Roseburg, Mondays, Wednesdays, Fridays, and returns Tuesdays, Thursdays, and Saturdays, Time of leaving both terminal points 6 o'clock A. M. and arrives at each point at 6 Orders from a distance prompto'clock P M.

ROBT, T. MCCULLOCH,

MRS. E. F. HOTCHKISS FINE MILLINERY

-AND-MEAT DRESSMAKING ROSEBURG OREGON. WILL FURNISH YOU THE BEST AND FINEST Goods in the market. Ladies Wear, Laces, Ruchings, Hoslery and Jewelry.

The dressmaking department is in skillful ands, and under the immediate supervision of Mrs. Hotchkiss. CALL AND SEE. NEAR THE DEPOT

WillamettE UniversitY --30--

PROFESSORS & INSTRUCTORS

Department of Literature, Law, Medcine, Music and Art. Girls board in Woman's College, with nicely fur-nished rooms, \$3.50 per week. Boys and Young Mens' board in the Young mens'

HALL.

\$1.50 Per Week

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ESTABLISHED REPUTATION. UNEQUALED FACILITIES, SKILLED WORKEN,

THE POPULAR ORGAN

Instruction Books and Plano Stools. Ostalogues and Price Lists, on application, Price CHICAGO COTTAGE ORGAN CO. Ger. Randolph and Ann Sta., CHICAGO, ILL.

THE TAX PAYERS of Roseburg are hereby notified that the CITY TAXES are now due and payable to the Marshal, who will call for them in a few days. Have the money ready.

Can only call ONCE.

GEO. J. LANGENBERG, City Marshal and Tax Collector.

Henry Easton's

ROSEBURG GROCERY STORE.

EEPS CONSTANTLY n hand a full assertme

GROCERIES!

Of All Kinds! FRUIT JARS, CANNED FRUITS. TOBACCO AND CIGARS.

TEA, COFFEE. SUGAR. A SPECIALTY. CANDIES AND CAKES.

Produce Bought -AND THE-

FREE DELIVERY GOODS delivered anywhere in the City Limits free of Charge.

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DR. JORDAN'S MUSEUM OF ANATOMY. 751 Market Street SAN FRANCISCO. GO AND LEARN HOW TO AVOID you are made. Private Office, 211 Geary Street Consultation on lost manhood and all dise men. Send for Beok .]

LIME! LIME!

The undersigned have now, and will constantly keep

On Hand full supply of fresh stone lime

at our kilns Near Roseburg.

ly attended to. Address E. J. MONTAGUE, OF S. C. FLINT,

Roseburg, Oregon. PRICES REASONABLE!

Coffee Hovse. A GOOD MEAL For 25 Cents Located on Jackson street 3d door

north from S. Marks' store. JOHN KENNEDY, Proprietor.

and Freight MUCH LESS than by any other route between all points in Willamette Valley and San Francisco. Only Route to that Popular Summer resort, Yaquina Bay where for moderate expense you can enjoy.

Oregon. Daily passenger trains except Sundays. Leave Corvallis at 2 P. M. L'v. Yaquina at 7.10 A. M. Oregon & California West Side trains connect at Corvallis. Oregon & California East Side trains onnect with stages at Albany at 12.05 P. M. Round trip tickets at excursion rates good till September 30th.

From Yaquina Monday July 12th, Friday, ,, 23rd, Wednesday, Aug. 4th, Monday, ,, 16th, Fares Rail & Cabin \$14,- Rail & Steerage \$9.88.

FOR SALE.

A. G. F. & P. Ag't., Corvallis.



MERINO SEEEP?

Cheap for cash or approved credit a superior lot of pure bred Makes The Very Best Lumber. Merino Sheep, both bucks and ewes. The same can be seen at our ranch near Wilbur, Cor-T. SMITH & SON, Wilbur, Or.

For Sale!

400 Head of ewes including

Inquire of E. G. Young & Co., or James Chenoweth of Oakland Oregon, or of Sampson Sutherlin of Fair Oaks at his farm.

TAX NOTICE NEW YORK LUMBER & Wood Yard

Go To M. R. Howell's

East side of track one block south of depot is where you will find number one dry lumber, Sugar pine, Cedar, Fir, and all Dimention lumber for buildings, sawed and shaved cedar shingles, Sash Doors, Blinds, Screen Doors, Mouldings, Wall and Stair railings, Balusters, Brackets, Newel posts, Ceiling, Rustic, Flooring, and all kinds of Finishing lumber, sawed and split Cedar posts, 1½ inch plank sawed expressly for sidewalks. I represent the Sugar Pine Door & Lumber Co. of Grant's Pass Or. which from personal inspection I believe to be the finest establishment on the Pacific coast, it employes seventy men. The Proprietors and Overseers are all Eastern men and experts in the business, the machinery is new and put up in the best manner, and all under srtict discipline and order. Their work is all done by number one mechanics and is equal to any work of the kind done in New York or the East. Fruit boxes, Picket fences and Gates complete. I also represent a number one mill at Yoncolla where I have sawed all Dimention lumber to order on short notice. All guaranteed as represented or no sale. Call and see stock and prices before purchasing. Highest CASH PRICE Paid! Stove wood constantly on hand at HARD TIME PRICES.

> OREGN STATE UNIVERSITY EUGENE CITY

SESSION 1886-87. First term begins SEPTEMBER 13, 1886. coure FREE SCHOLARSHIPS by apply ng to your County Superintendent. Board And Lodging

Per week \$3 to \$5. TUITION PER YEAR. entary English Department\$30.00 Other Departments. \$40.00 Send postal for catalogue with full particu-

PROF. JOHN STRAUB, SECRETARY FACULTY, Eugene City Oregon.

CHAS. M. HALL

OARLAND

EALER IN

Ri es Amunition, Staple & Fancy Cutlery, Fishing Tackel

AGENT

For the "White" Sewing Machines, Mitchell Wagons. -AND-

D. M. Osburn's Harvesting Machinery

Successors to PAGE & DIMMICK OAKLAND

OREGOM -DEALERS IN-PAINTS. JEWELRY.

GLASS. PUTTY, COMBS. We expect to do a strictly cash business, and will endeavor to make it the interest of all to deal with us. We also invite a continuation of the patonage of all former patrons, and solicit new ones. GIVE US A CALL

GRANT'S PASS ACADEMY

This Popular School Will Open for the FALL TERM on the First Monday in September

A Full Corps of Competent Instructors. RATES OF TUITION. Primary per term of twelve weeks......\$ 3 00

For further particulars address

HENRY L. BENSON A. M. PRINCIPAL. Wholesale and Retail

-DEALERS IN-Lumber.

Sugar Pine, Yellow Pine, Fir and Cak, Well Seasoned in Our DRY HOUSE When Desired.

-ALSO-Mauutacturers of Sash & Doors in all Sizes and Quantities. Our Factory is now in full operation and we can offer as a specialty all kinds of Stori and Office Fittings, Turning and Scholl work at lowest figures. We solicit correspond

dence which is assured prompt attention SUGAR PINE DOOR & LUMBER CO.

Grants Pass, Oregon PATTERSON'S MILL

Situated 15 miles from Roseburg on North Umpqua. Good roads in Summer

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Dealers in all kinds of Farm and Dairy machinery, Vchicles, Binder Twine

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chasing elsewhere, anything in any line. We will give you THE BEST machin

MEN ONLY PAST, VIGOROUS HEAD

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ery, at lowest prices.

MONUMENTS

J. J. WHITSETT.

HARRIS REMEDY CO., Mrt Cur

STATUARY ere awarded the -AT-WORLD'S FAIR. NEW ORLEANS,

Joseph Jacques dec'd

Notice is Hereby Given that the Undersigned har filed his final account as Executor of said estate in the above entitled Court, and the said Court by order duly made and entered of record on the 8th day of July 1886. Montay the 6th day of September 1886 was appointed for hearing objections if any there be to said flual account and the actionant of said estate. J. A. Cardwell, Agent, - Jacksonville, Oregon

NOTICE.

Notice For Publication

Notice For Publication.

Land office at Roseburg Or. July 27th, 1866.

NOTICE IS HEREBY GIVEN THAT THE FOLlowing-named settler has filed notice of his intention to make final proof in support of his claim,
and that said proof will be made before the Register
or Receiver of U. S. Land Office at Roseburg Or., on
Saturday Sept. 11th, 1886, viz.

LOUIS CHELFOE

Homestead Claim No. 2326 for the S W 1 of S W 1
Sec. 17 N W 1 of N W 1 of Sec. 20 Tp. 23 S. B. 6 W est
W. M. He names the following witness to prove his continous residence upon, and cultivation of, said land, viz; O. L. Willis of Roseburg, and John Heary, Ernest Rice, John Roberts all of Dillard Douglas county Qr.

Notice For Publication.

Land Office at Roseburg, Oregon, Aug. 19th, 1886.

NOTICE IS HEREBY GIVEN THAT THE FOLIOUS and the second of the s



BMURITY CO.

POOR GLASS. See that the actual label is on each chimney as all the Pearl Top is always clear and bright Glass. Manufactured ONLY by geo. A. Macbethaco. FOR SALE BY DEALMEST

Children Cry for PITCHER'S Health and Sleep without

LEGAL ADVERTISEMENTS. Notice For Publication.

Land Office at Reseburg, Or. July 21st, 1885.

NOTICE IS HEREBY GIVEN THAT THE POPULATION IN THE POPULATION IN THE POPULATION OF THE POPUL

Notice For Publication. Land Office at Roseburg, Oregou, my 14th 1886.

NOTICE IS HEREBY GIVEN THAT THE FOLlowing-named settler has filed notice of his intention to make final proof in support of his claim,
and that said proof will be made before the Register
or Receiver at Roseburg, Land Office on Saturday,
august 21, 1886, viz: Harriett S. Crow Homestead
No. 3516 for Lots No's 5, 6, 7, & 8. Sec. 6 Tp 28 S. R.
i West W. M.

Notice of Final Settlement. In the County Court of the State of Oregon in and

or the County of Douglas.

Application to Purchase Timber Land.

REATMENT:-One Month, 83. Two Mon. St. Three, ST.