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THURSDAY, NOVEMBER 4, 1909.

NEW TUNNELING DEVICE.

Machine Bore Through Rock at Rate of Twenty Feet a Day.

A machine invented by Olin S. Proctor of Denver promises to revolutionize the boring of tunnels, according to the New York World. The machine will tunnel through solid rock at the rate of twenty to forty feet a day, varying with the hardness of the rock. Formerly two or three men, working with drills and green stiches, could do no more than five feet a day at the best. Instead of leaving jagged apertures that have to be chiseled and propped, the new machine in its boring smooths the sides as it hand. In one day two men can do with this machine what it would cost \$500 to do under the old, tedious method.

The machine is twenty-three feet long and has a head of eight feet, just the size of the boring. In this head, made of well tempered steel, are twenty



HEAD OF TUNNELING MACHINE.

ty-four drills, each working independently and run by its separate pipe of air. These chisel out their own bores in the rock, giving a sharp, glancing chip 600 times a minute. The whole head rotates once a minute, exerting a terrific pressure on the drills, scooping up the chipped material and throwing it back into a "conveyor belt" that takes it to a car in the rear.

The head itself has the appearance of four large scoops spreading around the network of drills.

The power for turning this head and exerting the pressure is an engine of 500 horsepower. The cog wheel underneath the machine, capable of speeding at 5,000 revolutions a minute, but held down to 1,000, is the force behind the head.

If one drill is disabled the others go on working just as before, and the broken or blunted one can be replaced immediately.

If the face of the rock is variable in quality the boring is made through the soft and hard stone at precisely the same time. This smooth chipping is insured by an air cushion regulating the severity of the pressure.

VARNISH FOR SHOES.

Preparation Gives Good Results in Restoring Old Footwear.

A waterproof shoe varnish resembling patent leather in luster is compounded of shellac, one ounce; alcohol, three ounces; a pinch of lampblack for color, says Scientific American. Owing to the unfavorable action of alcohol on leather this shoe varnish is not to be recommended for brand new shoes, but to rehabilitate old shoes to a pristine shine it is unsurpassed.

The tendency of shoes being cracked by it may very largely be averted by first treating the leather to several coats of fish oil or vaseline well rubbed in, over which a very thin coat of paraffine is applied hot and the excess immediately wiped off. The shoes should then be varnished with cotton flannel until the surface is smooth and apparently dry and free from oil or paraffine. The shoe varnish is then thinly applied with a small sponge fastened to a wire. Several thin coats put on several hours apart may be necessary to get full luster. After that usually one thin application is sufficient. Patent leather paste polish rubbed over it and finished with flannel softens the glitter and leaves a very handsome bright surface. The chief other advantage to be derived from its use comes from its resistance to water. It is, therefore, invaluable when applied to preserve the good looks of the sides of the soles and heels of shoes to be worn in bad weather and even to waterproof their bottoms.

A Process For Staining Wood.

Hitherto wood has been stained by impregnating it while still fresh with a solution of some coloring matter. The solution was squeezed into the wood under a high pressure. According to a new Swiss process, the wood is impregnated with a solution of a coloring matter in hydrocarbons such as petroleum. For this purpose the wood is placed in a tank filled with the colored solution so as to be completely covered. There it remains until it is thoroughly impregnated by the solution. The staining in the tank may be effected with or without pressure, cold or warm. In this manner it is possible to stain any wood, either fresh or dry.

New England's Ice Cap.

Professor Louis Agassiz many years ago first announced that the ice sheet or glacial flow at the northwest of Maine could not have been less than a mile deep, while later geologists have confirmed his statement, adding the more recent conclusion that the ice was of that thickness at least over the larger part of New England.

Work of French Army Dogs.

Two French army dogs have drawn light ambulances, the invention of a lieutenant, with a load of 160 pounds each, for some 375 miles without a breakdown, showing how they can be used in wartime.

High School News.

Editorial Staff

Agnes Elliott
Clark Morse
Louise Summers
Wilford Belknap
Ethel Moore

Dr. Homan, President of the Willamette University, gave a very interesting and entertaining talk to the student body of the C. C. H. S. on Friday afternoon. He took for his subject "Racetracks," and by illustrations and comparisons showed that life, itself, was the race course, where those who were not willing to put forth their best efforts to the end, were beaten. He especially emphasized the fact that "quitters" along any line and, especially in educational, were those who stayed at the foot of the ladder. He spoke of the nine thousand names in the recently published book of "Who's Who" in America at the present time and that six thousand of these were University graduates, six hundred, High School graduates, and the remainder, men of various educational advantages; and I believe, every student of the C. C. H. S. made a mental vow not to be a "quitter," but to ascend to the top of the educational ladder and place his name among the six thousand of the "Who's Who." We appreciate Dr. Homan's visit and he will always find a hearty welcome at the C. C. H. S.

There were a number of visitors at the High School on Friday. Among them were Messrs. Lewellyn and Balfour and Mesdames Smith, Hoffman, Evans and Wilson and Miss Helen Ellkins. The old court house has begun to take on an unfamiliar appearance, for the painters are at work and no need to say that the campus will be much improved when the effects of time and weather have been somewhat effaced.

On Wednesday evening before I left to attend the convention at Roseburg, there was a knock at the door; I went to see what was wanted when I rushed a lot of men, women and young people, with bundles in their arms and deposited the same on the dining table. My jars of fruit of all kinds, and so many other good things. Our hearts were made glad by these tokens of kindness, and we wish to express our sincere thanks to the donors for their gifts, and above all for their friendship. May the giver of every good and perfect gift bless them, in the sincere wish of the pastor and family.

The society held its regular meeting on Friday, October 29, and the program was one of the best of the year. Mrs. Sowler's talk on "Athletics" deserves special mention, as she showed the value of athletics in connection with educational work and what the increased interest in this branch of education was doing and would do for the C. C. H. S.

The program of the Okechocian society held last Friday, was of unusual merit. Miss Leola Estes' recitation, "Mrs. McDuffy on Baseball," was especially entertaining. The essay, "A Shattered Idol," by Clarence Rice, was rather hard on the seniors but should be commended for its originality. The "Impromptu" by Alex Barnes was well given. "The Importance of the Railroads in Crook County" was the subject of a talk by Wilford Belknap and he did it justice. The humorous reading by John McDowell was well worth listening to. A second "Impromptu" by Aaron Hoffman showed that the subject selected was well understood by the talker. "The Okechocian Review," edited by Miss Lotta Smith, was one of the best editions that has been published of this famous paper.

Mrs. Balfour, Miss Fish and Mabel Bixley were society visitors Friday.

Any Davenport was absent from school Monday. Several of the freshmen who thought of entering the try-out debate have withdrawn. We feel sorry, for they are losing much and don't realize the benefit they would derive from it.

Mabel Donk was absent from classes last Tuesday. All of the seniors are working hard for the try-out debate and if it is not the best ever held in the C. C. H. S. assembly room it will be no fault of ours.

Agnes Elliott was absent from school last Thursday and Friday, but in her classes again.

Vernon Bell was absent one day last week. The sophomores are waiting anxiously for the tennis meet with the freshmen. The juniors are coming to the front and entering the try-out debate.

Caroline Christian missed classes last week but is in her place again this week. Alex Barnes was absent from school one day last week.

Dr. Gray and Gray will remain in Prineville for another week and are doing a great amount of work for many of the leading citizens of the county. Their methods are painless, strictly up to the minute, and prices reasonable. If you have dental work to be done have them examine your mouth. Rooms 11 and 15, Hotel Prineville. 021

Subscribe for the Journal, \$1.50 a Year. County Official Paper

Platting New Town

On Crooked River.

Perhaps the greatest and most enduring charm about life in the Redmond country is the ever-widening sphere of opportunities which it offers to men of energy and intelligence. Throughout the beautiful Deschutes Valley in years to come will be thriving villages and metropolitan cities. Exactly where the terminus and railroad shops and yards will be is already settled, for one of the railroad systems has selected Redmond as its objective point. Perhaps Opal City, a town-site just platted on the Opal Prairie, will be another jewel to shed its luster in the making of an empire. But now comes the crowning glory of the Deschutes, the ideal spot for a town of unlimited possibilities. On the banks of the Crooked River, 7 miles from Redmond, will bud forth the town of Hillman.

"Hillman," the name taken from a combination of names Hill and Harriman. The promoters of this new enterprise is F. P. Cooper, of Portland, president; T. W. Taylor, vice-president; Judge E. V. Littlefield, formerly judge of the Eleventh judicial circuit, secretary.

A party of surveyors left Redmond Tuesday to plat the town and the promoters will soon have the town-site of Hillman advertised in the press of the Northwest.

Mr. Taylor told The Hub reporter in an interview Tuesday that the Hillman Town-site Company was incorporated for \$100,000 and meant to get busy at once selling lots and bringing in contractors and builders to erect the company's buildings. The president of the company, F. P. Cooper is certainly a hustler and will make lots like Hotel Redmond hot cakes.

The town-site is located on Crooked River where the ripple of the waters and poetic scenery will rest the tired brain and eye of the Redmondite weary from a day's business in his thriving city.—Redmond Hub.

A Pleasant Experience.

On Wednesday evening before I left to attend the convention at Roseburg, there was a knock at the door; I went to see what was wanted when I rushed a lot of men, women and young people, with bundles in their arms and deposited the same on the dining table. My jars of fruit of all kinds, and so many other good things. Our hearts were made glad by these tokens of kindness, and we wish to express our sincere thanks to the donors for their gifts, and above all for their friendship. May the giver of every good and perfect gift bless them, in the sincere wish of the pastor and family.

May Revoke State's

Patent to 7500 Acres

A special agent from Salem to the Oregonian says that the State Land Board has received notice from the Interior Department at Washington to show cause within 60 days why 7500 acres of the 11,300.48 patented to the state in the Columbia Southern project should not be re-conveyed to the Government. A special agent of the department has reported to the Government that "nearly the whole of the lands so patented to the state were patented by reason of misrepresentation, and that said lands are either entirely unreclaimed, or too high for reclamation under the system by which it was proposed to irrigate them, are unfit for cultivation, if irrigated, or are in a position where no water is available for their irrigation."

The desert land board has taken the matter up with the Columbia Southern Irrigation Company and will endeavor to induce the company to proceed with its work under some definite agreement with the state or dispose of its equity in the project.

While State Engineer Lewis says that no definite proposal has been received for the project, it is admitted that the property has been looked over by several concerns that have the financial standing to carry the work to a successful conclusion and that there will be no difficulty in the state completing the project if the present troubles can be cleared away.

Heretofore there has been much difficulty in getting the stockholders of the irrigation company together to agree upon anything. The matter has been hanging fire for several years. The Interior Department approved Oregon Segregation List No. 13, embracing 27,000 acres of land, in January, 1904. On January 19, 1905, 11,000 acres were patented to the state upon representation of the state officials. The engineer of the company was at that time employed by the state as its engineer and some time later the state learned, it is alleged, that there had been fraud, and brought suit against the company to annul the contract on this ground.

The Federal Court found for the company on the ground that the state, by accepting the report of W. A. Laidlaw, president of the company and also selecting agent for the state in this matter, had been a party to the fraud, if fraud there had been, but which, however, had not been conclusively proven.

By adopting a new and more vigorous policy in handling the project in the future, the desert land board hopes to be able to save the 7500 acres already patented to the state. If the irrigation company continues to adhere to its policy of procrastination, however, the board feels that it will probably be obliged to get the Government go ahead and take such action as it sees fit in regard to the land which it is claimed was patented through misrepresentation. Also, the state will bring suit in its own behalf to annul the present contract with the irrigation company.

Notice.
All persons knowing themselves to be indebted to Stroud Bros. prior to October 1, are requested to settle at once. Address all remittances to C. M. Stroud, Prineville, Or. 014

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Read what Mrs. Elliott says concerning the doctors' painless work:

To my Friends in Prineville:
I wish to say that I have just called on Drs. Gray at the Prineville Hotel and took the Vitalized Air and had nine teeth extracted in less than one minute. I can truthfully say that I felt no pain at all and no bad effects whatever. I can gladly recommend Drs. Gray as doing exactly as they claim, and would advise my friends to call on the Doctors as they do not misrepresent.

MRS. J. W. ELLIOTT.
Prineville, Oregon, October 2, 1909.

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