

NATIONAL RACE FOR GOOD ROADS

Every State Aroused to the Benefits of Improved Highways.

\$140,500,000 TO BE SPENT.

Recent Good Road Laws Are Making the Future Look Bright For This Country in the Way of Good Transportation—New York Spending More Than Any Other State.

One million dollars a day is the record that will be established throughout the United States as the expenditure for improving and maintaining public roads. Never before in the history of the country has there been such interest in the improvement of highways, and with the legislatures of the states appropriating millions of dollars for this purpose, the good roads movement has received its greatest impetus since the foundation of the republic.

The money that will be expended on the roads of this country during the next six months will be more than ever before in the same period of time. In 1904 the total expenditure for the construction and maintenance of roads and bridges in the United States amounted to about \$80,000,000, but the expenditure for this purpose in 1911 will aggregate about \$140,500,000. Exclusive of Sundays and legal holidays,



NOW THE FARMER GETS TO TOWN ON A GOOD ROAD.

The outlay for roads will amount to \$1,000,000 a day during the present road building season.

"The prospect for a complete system of public roads throughout the United States is better now than ever before in the history of the country, and a uniformity of recent good road laws gives promise that this country will eventually take its place with France in having the most sensible system of road supervision and maintenance," says L. W. Page, director of the office of public roads.

In California the state has issued \$18,000,000 in bonds with which to build a system of state highways. This work will begin during the present season. In the state of Connecticut about \$2,250,000 will be expended this year out of the state treasury for trunk line and state aid roads. Of the \$3,000,000 bond issue recently authorized in Maryland over \$1,250,000 will be available this year for trunk line and state aid roads. Massachusetts will expend from state revenues over \$1,000,000 for the construction and maintenance of state roads.

It is expected that at least \$5,000,000 will be expended on state aid roads and on trunk line systems in the state of New York in addition to \$7,000,000 already raised by local taxation. More



THE KIND OF PROGRESS ON A BAD ROAD

money is being devoted to road improvement in New York than in any other state in the Union, and the percentage of improved roads in that state has increased from 7.9 per cent in 1904 to 60 per cent in 1909.

Over \$2,000,000 is available in North Carolina from bond issues in the various counties for road improvement this year, and the legislature has authorized the construction of a road from the Atlantic ocean to the Tennessee line, a distance of 425 miles.

In 1910 thirty counties in Ohio voted \$2,500,000 in bonds to be expended this year. Ohio will also expend about \$500,000 from state revenues for road improvement. In Pennsylvania the state aid appropriation will probably amount to over \$1,000,000, and a \$70,000,000 bond issue is being considered. Various counties in Tennessee will expend \$1,500,000 from bond issues. Over \$1,500,000 will be expended from bond issues in various counties in Texas. In Virginia \$2,500,000 has been authorized by various counties to be expended this year, while over \$250,000 has been appropriated in the state of Wisconsin in accordance with the state aid system.

THE ORIGIN OF ROCKS.

How Geologists Divide the Three General Classes.

The geologist divides rocks into three general classes—igneous rocks, originating from the molten magma forced upward from the bowels of the earth, such as granite and the various lavas; sedimentary rocks, consisting of disintegrated particles of the igneous rocks which have been reformed into rocks themselves, such as sandstone, and metamorphic rocks, consisting of igneous or sedimentary rocks whose composition has been greatly changed by intense heat, chemical action or other causes—as, for instance, a limestone that has been changed to marble.

Sedimentary rocks, as stated in the geologic atlas of the United States geological survey, are usually made up of layers or beds which can be easily separated. These layers are called strata, and rocks deposited in such layers are termed stratified. The surface of the earth is not immovable. Over wide regions it very slowly rises or sinks with reference to the sea, and shore lines are thereby changed. As a result of upward movement marine sedimentary rocks may become part of the land, and most of our land areas are, in fact, occupied by rocks originally deposited as sediments in the sea.

Sandstone is perhaps the simplest example of a sedimentary rock. Obviously sandstone was once sand, and again each grain of sand was once a part of some older rock. This sand was first eroded and then deposited and either subjected to great pressure by overlying masses perhaps thousands of feet thick or cemented together by chemical solutions. Where the stone was formed by simple pressure it contains a large proportion of open spaces and thus becomes an ideal water bearer. Some sandstones will carry as much as six quarts of water to the cubic foot of stone. In other varieties the interstices may have been filled with cementing material so that the rock may be for all practical purposes almost as dense as granite.

GAS ENGINE MUFFLER.

Simple Device For Deadening Noise of Exhaust.

Many farmers and mechanics have gasoline engines which are objectionable on account of the noise from the exhaust. This noise may be entirely done away with by the use of the simple muffler pictured herewith.

Two barrels are connected by a pipe of the same size as the pipe that leads



UNDERGROUND ENGINE MUFFLER.

from the exhaust. Four small pipes are screwed into the top of one barrel, and the exhaust pipe is fastened in the top of the other. Both barrels are buried so their tops are about six inches below the surface of the ground. This muffler will stop the noise entirely, and on account of its size it will not reduce the power of the engine, which the smaller ones have a tendency to do.

Smoke Burning Grate.

What is hailed as a great improvement in the construction of grates for furnaces has been recently attained by a Carlsbad architect, Alois Siebert, which is said to be so effective that the poorest Bohemian coal, which is a very soft lignite, may be burned with an efficiency of a little less than 85 per cent. The grate is entirely novel in its design and really consists of two grates, one above the other. From the top one there issues a blast of hot air, which beats down the smoke and soot from the fire, driving it back into the flames so that it is entirely consumed. One of these grates has been in operation for a period of twenty-six months in the municipal slaughter house at Carlsbad, and it is said that there is not the slightest discoloration to be seen inside the chimney.

Metalized Paper.

Metalized paper is being manufactured by a German process as a substitute for tin foil. Ordinary paper is treated with a mixture of finely powdered metal and resin and then subjected to friction, with the result that it becomes as flexible, brilliant and impermeable as sheets of tin foil. Wax or an alcohol solution of gum lac may be used instead of the resin. In making the tin foil paper either pure tin in a powdered state may be used or a mixture of aluminium powder and tin. The final polishing is done by calendering, which, hitherto always done with heated rollers, is accomplished in this process by means of refrigerated rollers.

Identifying Bullets.

In an address to the Paris Academy of Sciences Professor Balhazard contends that when a leaden bullet traverses cloth characteristic marks are left upon it, which are not obliterated by the subsequent passage of the bullet through flesh, provided that it does not strike a bone. It is even possible, he claims, to identify the nature of the garment through which the bullet has passed by a careful examination of the marks on the lead.

Professional Cards.

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Dentist.

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Successor to W. A. Bell

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Prineville, Oregon.

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47-218-p

Summons.

In the Circuit Court of the State of Oregon for Crook county.
D. F. Stewart, Plaintiff,

vs.
John T. Moore and Della A. Moore, Defendants.

To John T. Moore and Della A. Moore, Defendants.
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 last day of the time prescribed in the order for the publication of this summons, to-wit: on or before the 2nd day of May, 1912, and if you fail so to appear and answer, for want thereof, the plaintiff will apply to the court for the relief demanded in his complaint, to-wit: for judgment against you for \$415, with interest thereon at the rate of ten per cent per annum from May 13th, 1908, for \$50.00 attorney's fees and for the costs and disbursements of this suit. For a decree for the sale of the lands described in that certain mortgage executed by you and in favor of plaintiff, dated May 14, 1908, and for the foreclosure of said mortgage.

This summons is published by order of the Honorable W. L. Bradshaw, Judge of the above entitled court, which order was made and entered on the 11th day of March, 1912, and the day of the first publication of this summons is the 21st day of March, 1912.

M. R. ELLIOTT,

Attorney for Plaintiff.

Notice of Dissolution of Partnership.
Notice is hereby given to all persons concerned that the partnership formerly existing and engaged in the sawmill business on Crook Creek, Crook county, state of Oregon, between O. F. Wallenburg and H. C. Farrer, under the firm name and style of Wallenburg & Farrer, has been this day dissolved by mutual consent, H. C. Farrer, retiring and to become due said former firm are payable to O. F. Wallenburg, and all debts and liabilities due or to become due from said former firm are to be paid by him.
(Signed) O. F. WALLENBURG.
H. C. FARRER.
Dated this 13th day of March, 1912.

Notice for Publication.
Department of the Interior, U. S. Land Office at The Dalles, Oregon, February 29th, 1912.
Notice is hereby given that Walter Elliott, of Paulina, Oregon, who, on March 21st, 1910, made homestead No. 5885, for 65 acres and 25 acres, section 28, township 18 north, range 23 east, Willamette Meridian, has filed notice of intention to make final commutation of said homestead claim to the land above described, before Warren Brown, county clerk, at his office, at Prineville, Oregon, on the 29th day of April, 1912.
Claimant names as witnesses: Joseph L. Lister, of Paulina, Oregon, John Brackett, of Meadow, Oregon, Marion F. Taylor, and George Hay, of Paul, Oregon.
U. W. MOORE, Register.

Notice to Creditors.
Notice is hereby given by the undersigned, the executor of the estate of James S. McBeck, deceased, to all creditors of said deceased an all persons having claims against said estate to present them with the proper vouchers to the undersigned at the office of M. R. Elliott in Prineville, Oregon, within six months of the date of the first publication of this notice.
Dated this 21st day of Feb., 1912.
CHARLES F. McBECK,
EMMA F. McBECK.

L. O. O. F. LODGE meets every Saturday night. Strangers welcome. G. F. Beams, N. G.; C. L. Shaddock, V. G.; Burl Barnes, Sec.; and C. B. Dinwiddie, Treas.

The Brosius Bar

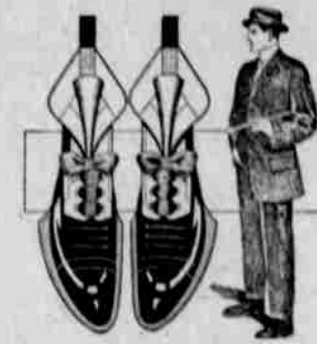
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Look Them Over Well

and you will admit that in material, style, workmanship and finish our shoes are without superiors anywhere else in town. And when you put them on and wear them you will acknowledge that you never had a more comfortable or easier shoe on your foot. Compare values with the goods in any other shoe store and you will give us the palm.

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A Chance

To supply your table for a nice Sunday Dinner. All of the articles mentioned below arrive Fresh every few days. Cauliflower, Cabbage, Lettuce, Celery, Asparagus, Sweet Potatoes, Green Onions, Radishes, Rheubarb, Bananas, Oranges, Lemons. Also if you wish a nice dressed chicken, or a nice tender roast of any kind, visit the O. K. Market.

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11-16

S. R. COOPER, Agent