

HUDSON'S NEW WATER WHEEL TESTED TODAY

**Sumpter Man Has Invented Device For Which
a High Power Efficiency is
Claimed.**

James Hudson has invented a wheel for the application of water power and some time ago applied to the government for a patent. This morning Mr. Hudson and J. A. Johnson, the blacksmith, who is in with him on the deal, constructed a rough model in about an hour's time, and took it down to Powder river to show their friends the working principles of the machine.

A Miner man was present at the exhibition, and while making no claims as a mechanical expert, does not see why the invention will not prove a success. To give a brief description, it consists of an upright shaft, to which are attached four small paddles, freely movable on horizontal rods, crossing each other through the shaft at right angles. These paddles are set at right angles to each other on the rods. The machine placed in the current of a stream, an individual paddle dips into the water, catches on a nub projecting from the shaft and forces the shaft half way round, when the opposing paddle dips, raising the other and completing the revolution. The four, of course, operate in conjunction on the same principle. Any number can

be used with a corresponding increase of the power coefficient.

The points of superiority claimed are cheapness, simplicity, lack of friction or back action and the high degree of efficiency developed. The application of the power can be made to any style of machine. For instance, for irrigation purposes, Mr. Hudson claims at a cost of \$65 he can construct a wheel which will raise 2,000 gallons of water thirty-three and one-third feet a minute, with a utilization of 95 per cent of the power involved. This comes from the lack of back action. The instant the paddle passes beyond the force of the current the opposite one dips, and raises its companion, thereby almost completely eliminating any counteracting quantity. This, as is well known among machinists, is a feature which it has been long sought to overcome. At the exhibition of the Pelton wheel during the Chicago fair, 85 per cent of the power developed was utilized, which it is claimed was high, but Mr. Hudson says his wheel will beat this record. He has had the idea in his head, he says, for the last twenty years, but until recently made no attempt to secure a patent.

IRRIGATE LAND BY MEANS OF ELECTRICITY

The Baker City correspondent of the Portland Telegram writes: W. J. Patterson is breaking up 320 acres of land near this city, which he is going to irrigate by means of electricity. There is no water available for irrigating this land in the ordinary way. It is too high up on the bench to divert water from the river, and then there would be no water unappropriated in the river if river water could be conveyed to the land. There is an abundance of water flowing underneath this land at a depth of about twenty feet. Experiments made last season demonstrated that this source of supply was constant and abundant. The question was how to raise the water to the surface in sufficient quantity to irrigate the land, at an expense that would not be prohibitive.

There is an electric transmission line which conveys electric power to one of the mines which passes over this land. Mr. Patterson hit upon the idea of sinking large wells, and he has made arrangements to put in a number of these pumps. A five-horse power motor will raise 320 gallons of water per minute, which is sufficient for eighty acres of land.

A large well is put down on the highest part of the tract to be irri-

gated, and the electric motor and pump does the rest.

Mr. Patterson expects to raise a crop on the land this season that will produce enough to pay a for all improvements and leave a neat profit besides.

LIEU LANDS MUST BE THE SAME IN KIND

Senator Hansbrough's bill relating to the creation of forest reservations on the public domain, as amended by the committee on public lands, has been favorably reported. The committee adopted an amendment providing that all selections of land made in lieu of land hereafter relinquished to the United States within any forest reservation shall be limited to land of the same character and quality, both as to soil and timber, as the land relinquished.

Senator Heyburn offered an amendment requiring that selections be made in the state and territory in which the land relinquished is situated. This amendment was rejected and an exemption was made of the state of Idaho so that no selections shall be made in that state except for land relinquished in the state.

The section of the bill relating to railroad land grants was amended so that it provides that no forest reser-

vation shall hereafter be created covering any lieu land or any lands within the place or indemnity limits of any railroad land grant or any platted village, town or city. The secretary of the interior is authorized to ascertain all lands within such reservations which are chiefly valuable for agriculture and permit these to be disposed of to actual settlers under the homestead laws, in tracts not exceeding 160 acres in area.

DEVELOPMENT WORK AT THE PLATTS GROUP

Bert Rusk, superintendent of the Platts group, came in today on his way to Baker to attend the democratic convention. He and his brother delegates, Anderson and Marcum left at noon with Seymour Bell to drive to the county seat.

Mr. Rusk says the road to Borune is in a frightful condition. It's neither time for wheels nor runners, but the latter were used and the passage was difficult. The passengers had to walk a big part of the way.

Work at the mine, Mr. Rusk says, is going right along undisturbed by the floods below. He expects to cut the ledge now in a short time.

HE TOOK PRIMITIVE WAY OF LOCOMOTION

M. E. Bain, manager of the Overland, returned this morning after a somewhat slushy foot voyage from the mine. Stage communication is attended with more or less difficulty, and so Mr. Bain concluded to try the primitive and time honored method of foot locomotion.

He says as a general principle the system still works all right, though he observed little improvements, but the chief difficulty in this instance was the miserable condition of the roads, especially between Hanover and the mine.

At the property, Mr. Bain says, things are going as usual and good development results are being obtained.

AWARDED EXTENSIVE PAINTING CONTRACTS

Captain H. L. Davis has undertaken an extensive painting contract for the Columbia and North Pole. Captain Davis and Theodore Hansworth, who is to assist him in the work, left this morning for the former mine to be begun operations. The Columbia boarding house is to be painted throughout, which will require about thirty days to complete. The North Pole contract, however, is still more extensive, and includes practically all the buildings connected with the mine. It will take almost three months for the two to finish the job.

Back From Listen Lake.

J. N. Doane returned last night from the Listen Lake mine in the Greenhorn, where he has been for some time. He says the shaft is now down over eighty feet, but that sinking is being interfered with by the extra flow of water. The shaft is to be sunk to the 100 foot level, and the vein again crosscut.

PETITION.

To the Honorable County Court of the State of Oregon for the County of Baker:

We the undersigned petitioners being an actual majority of the whole number of legal voters in the Greenhorn Precinct, Baker County, Oregon hereby petition your honorable body to grant a license to C. H. Schepster to sell spirituous, malt, and vinous liquors in less quantities than one gallon at his place of business, for the period of one year, which is known as the Road House situate in said precinct on the county road running from the City of Sumpter to Canyon City and being in Section 34 T. 10 S. R. 35 1/2 E. W. M. And that the same is not within one mile of any mine, and the place of location is known as "Tipton" and your petitioners will ever pray.

C. S. Collins, T. E. Gilkey, Frank McManus, J. H. Pratt, U. S. Jackson, S. J. Kersharn, John Fogarty, F. E. Harman, John Sutherland, W. A. Saunders, H. C. Seoul, Geo. Zall, Root Preston, Fred Donaldson, Zim Dauson, Jack Mills, Tom Carney, Jack Hughes, Bob Moore, Tom Williams, L. Gillis, Billie Cole, Chas. Colman, Chas. Campbell, A. Brandenburg, Andy O'Hara, Roy Chittenden, John Jas. Loy, G. S. Patterson, R. E. Driscoll, Mat Lampl, Ed Borman, Harry Danes, Fred Danes, Ed Danes Peter Brady, Gus Lapka, Jim Currie, Tom Colbert, Jos. Bucanon, Pat Bucanon, West Rizer, All Sherrill, Frank Shaver, Wm. Brady, Chas. Moore, Phil Murry, Cliff Stok, Bailey Smith, Henry Smith, Harley Smith, W. H. Kelley, Bill Rodgers, John Bonds, Ed Ganner, Bert Comstock, Bert White, Morris Sullivan, Sam Stott, Ed Sullivan, Will Springer, Joe Smith, H. P. Semard, Geo. Hulse, T. H. Murphy, John E. Millard, Wm. Peart, Douglas Weaver, Adny Larsen, Alfred Laffan, H. Morgan, Jim Cunningham, T. E. Shea, Ed Cimbin, Gus Laferty, Geo. Neigance, Sim Richardson, Tim Dawson, O. Cox, Frank Huffman, Geo. Young, Ed Billings, W. W. Smith, John Hunter, James Wicks, Wm. Duncan, Bert Rudder, Harry Hanby, Milo Reardon, W. F. Draper, Tom Davis, E. E. Carter, M. M. Rardin, T. F. Bunker, M. D. McMullen, C. T. Carver, L. Phaner, W. A. Butler, Robt. Genes, Jas. Maxzon, Frank Roberts, Bert Roberts, J. O'Heran, Gus McCulloch, Wm. Peterson, Jas. Goshen, Frank Kline, O. E. Stearns, Tom Frazer, L. McGreggor, Harry Wilson, Jeff Hoffman,

Notice is hereby given that the undersigned will apply to the Honorable County Court of Baker county on the 12th day of May, 1904, or as soon thereafter as may suit the convenience of the Court for a license in accordance with the terms of the above petition.

C. H. SCHEPSTER.

NOTICE OF SALE.

Notice is hereby given that on May 5, 1904, the following articles, which have remained unclaimed and uncalled for in the office of the Sumpter Stage company for more than ninety days, the limit prescribed by law, will be sold to the highest bidder for cash, to pay storage charges, said articles being marked R. M. Co.

One bed spring and mattress.
Two-thirds of a keg of nails.
One sack of hose.
Three tents.
Eleven boxes of merchandise.
Five camp stools.

TOM McEWEN ESTATE.