

UNCLE SAM FILES ON WEBER WATERS

Engineer of Reclamation Survey
Puts in Claim for 1,000
Second Feet.

100-MILE CANAL TO BE BUILT.

From Devil's Gate to Two Storage
Points from Which Vast Areas
Will be Irrigated.

Prof. Swenson, engineer in charge of the reclamation survey, filed yesterday afternoon with the state engineer, claims for 1,000 second feet of water from the Weber river, for 265 days in the year, from Jan. 1, to Dec. 31 following; to be taken out at Devil's Gate, in section 29, township 5 north, range 1 east, S. L. B. & M. The diverting works will be a dam with headgates, and a canal 10,500 feet long, 80 feet wide and 9 feet deep, for power, irrigation or any other purpose desired. The indicated power is to be 18,000 horse power, for pumping, swamp draining and other purposes in Weber, Davis and Salt Lake counties.

The reclamation engineer has also made a second filing for 1,000 second feet of water, in section 23, with a canal 10 miles long, 90 feet wide and 8 feet deep. There are to be two storage points, one a dam at the point of diversion, and the other to be a dam on the Weber at Lone creek.

All this is part of the government scheme for establishment of reservoirs and the enlargement of the irrigated area in Weber, Davis and Salt Lake counties.

MISSOURI FOUR PER CENT.

New York, Dec. 8.—The greater part of the \$5,000,000 of Missouri Pacific railroad 4 per cent bonds purchased by Kuhn, Loeb & Co., and their syndicate will be formed here to sell the bonds. The proceeds will be used to reimburse the Missouri Pacific treasury for important amounts already paid on this road, as well as the railroads from Mountain and Southern railway, which is an important part of the Missouri Pacific system. A considerable portion of the money will be used to pay the Missouri Pacific. Reports that part of the \$5,000,000 will be used in the construction of the Western Pacific railway are authoritatively denied.

NEAFIE & LEVY.

Philadelphia Shipbuilding Company Makes Assignment.

Philadelphia, Dec. 2.—The Neafie & Levy shipbuilding company, one of the oldest concerns of the kind in the country, made an assignment today. The company recently completed the building of the projected cruiser St. Louis. The latter is about 60 per cent completed. It is understood that the financial loss on work for the government will exceed the embarrassments of the company.

SCIENTIFIC MISCELLANY.

The rich copper mines of Chile have been little worked on account of the scarcity of fuel and the cost of transporting the ore. In 1899, however, during the last several years an electric furnace has been employed in Paris to smelt the ore at the mines, thus reducing the quantity of material to be carried. After making and demolishing 98 furnaces, Imbert de Vanoy, who has had charge of the work, believes he has produced a practical type. He uses two arcs between two pairs of four-inch carbons, obtaining an easily-regulated heat of 2,000 degrees. The mixture of ore and flux is brought under the action of this heat without direct contact with the electrodes. Two feeders empty buckets of the mixture into hoppers at the ends of the funnel, while the fused copper matte is drawn off into ingots at the rate of one ton an hour. For a ton of mixed ore and flux, a current of 110 volts and 2,000 amperes is needed, and the cost of treating this amount per hour is less than \$2. The furnace is expected to work incessantly for a year before wearing out.

The proposed bore-hole 12 miles deep has brought out the objection that the great pressure of 10 tons per square inch would cause a viscous flow of rock material making thefeat impossible. The Hon. C. A. Parsons replies that this idea can be tested by subjecting a piece of quartz rock to a pressure of 10 tons per square inch in a close fitting cylinder having a small hole through its center. This pressure is that expected at a depth of 32 miles.

The perfection of pharmaceutical products and the prevention of the great waste of food materials are the two lines which J. F. Moulton, F. R. S., finds the chemical invention of the day to be following.

A marked influence of the moon on the weather is easily shown, in the opinion of G. L. Wagner, German astronomer, when rainfall is considered in relation to the moon's phase and perigee. In his investigation he has used the monthly data of rainfall at 60 north German stations for the years 1857 to 1894 and of about 98 stations in Java and Madiera for 1879 to 1902, and it appears that a dry period is likely to reign when both moon and sun are upon the same side of the earth at the moon's nearest approach. That is, in both North America and Java a drought has appeared when perigee was nearer to new moon than to full moon. The rule applies to all countries where the greatest rainfalls occur with the highest position of the sun. New moon last July fell near perigee, and dry weather was predicted, the forecast proving remarkably accurate.

An extraordinary use of the same keeping quarters by diurnal and nocturnal animals is recorded by a naturalist of Ceylon. Barberyn Lighouse Island, 35 miles south of Colombo, is inhabited by day by fruit bats or flying foxes and at night by crows, and at sunrise and sunset may be seen the curious spectacle of two immense flocks flying in opposite directions across the strait separating the island from the mainland, the flying foxes at a greater elevation than the crows. The cross migration, lasting about half an hour, is attended by great chattering of flying foxes and crowing of crows.

The idea that moss grows thickest on the north or east side of trees seems to have been disproved. A French botanist, Louis Bedel, now concludes that mosses prefer the parts of the tree that retain most moisture, being thus more abundant on rough or cracked parts, on the upper part of a branch or inclined trunk on knots or bosses, at the fork or branches, and at the base of the trunk.

The cat, besides its liking for voleys, has shown a taste for caffeine, which brings painful and fatal results.

Electricity is now made to serve the

fisherman by showing the presence and extent of shoals of fishes. The apparatus is the subject of a German patent, and it consists of a microphone, which is enclosed in a water tight case, and connected with an electric battery and telephone. As long as the microphone hangs free on being lowered into the water, no sound is heard. When fishes strike against the case, however, their presence is revealed by tappings, and the length of the rope supporting the microphone gives the exact depth at which the shoal is encountered.

The novel automobile of a Russian engineer is a combination of sledge and boat. It is in the form of a boat with two bars or runners beneath, and it is intended for the use of Prince Khilkoff in crossing Lake Balkai. A gasoline motor supplies power. A wheel with points to grip on the ice propels the sledge and when the boat is in water a clutch connects the motor to a propeller.

Licanite, the new substitute for gutta percha, is a mixture of asphaltum, petroleum and gum. Dissolved in turpentine, it is used for insulating electric wires, and costs less than a twentieth as much as gutta percha. It can be mixed with either caoutchouc or gutta percha. The material is expected to serve important uses, but its durability in exposed places remains to be shown.

The ordinary burglar alarm is liable to be thrown out of action by cutting of the wires. In the new wireless system of English makers, any tampering with a safe puts in action a small transmitter, which emits Hertzian waves sufficient to operate coherent-controlled alarms in any part of the building.

BRIDES' HEADDRESSES IN FOREIGN COUNTRIES.

The German village maiden goes to the wedding ceremony wearing a curiously crimson erection upon her head. This is generally covered with tinsel, gold and silver coins and dangling chains and is rather an ugly kind of headress. But a wreath of myrtle, rosemary and white roses makes it look very much prettier, and it is no wonder that the happy bride is particularly proud of this part of her wedding costume.

Spanish girls generally choose carnations or pink and white roses for their wreath, flowers which are most becoming to their dark complexions.

Many a bride adorns her hair with garlands made of gold or silver leaves instead of natural flowers. Of course these are not nearly so pretty and are often much more costly, but, then, that does not matter if the custom of their native land demands it. Besides they never fade, and, if they are expensive to begin with, they can be handed down from one generation to another. In Norway they have a convenient way of overcoming the difficulty. It is always possible to hire a handsome silver wreath from the church for the sum of 45.

SUMMONS.
In the District Court of the Third Judicial District of the State of Utah, County of Salt Lake, Jean M. Turner, Plaintiff, vs George S. Turner, Defendant. The State of Utah, the Plaintiff, is hereby summoned to appear within twenty days after the service of this summons upon you, to defend within the county in which you reside, or, if you are otherwise within this state, within thirty days after service, and defend the above entitled action; and in case of your failure so to do, judgment will be rendered against you according to the demand of the plaintiff; a copy of this summons is herewith served upon you.

T. J. ANDERSON,
Plaintiff's Attorney.
P. O. address room 33 Hooper Building,
salt Lake City, Utah.

DELINQUENT NOTICE.

The Scott Gold Mining Company, Principal place of business Salt Lake City, Utah. Notice—There are delinquencies upon the following described stock on account of non-assessment No. 1, of one cent per share, due on the 1st day of October, 1894, the several amounts not exceeding the names of the respective shareholders, as follows:

No.	No.	No.	No.
Judson A. Tolman	29	29	1.00
Chas. Tolman, Jr.	30	20	2.00
Chas. A. Higginson	31	20	2.00
John Harlow	32	20	2.00
E. Thompson	33	100	4.00
John Lunn	34	40	4.00
John Johnson	35	1,025	16.00
Caroline Detton	36	1,000	16.00
Leonidas Mecham	37	500	5.00
James Stirling	38	13,333	213.33
James D. Stirling	39	18,000	288.00
Charles Thomas	40	6,000	10.00
Elizabeth E. Thomas	41	8,325	13.32
H. E. Baker	42	500	5.00
H. E. Baker	43	200	2.00
H. E. Baker	44	400	4.00
H. E. Baker	45	200	2.00
H. E. Baker	46	100	1.00
H. E. Baker	47	100	1.00
H. E. Baker	48	400	4.00
H. E. Baker	49	200	2.00
H. E. Baker	50	100	1.00
H. E. Baker	51	100	1.00
H. E. Baker	52	100	1.00
H. E. Baker	53	100	1.00
H. E. Baker	54	100	1.00
H. E. Baker	55	100	1.00
H. E. Baker	56	100	1.00
H. E. Baker	57	100	1.00
H. E. Baker	58	100	1.00
H. E. Baker	59	100	1.00
H. E. Baker	60	100	1.00
H. E. Baker	61	100	1.00
H. E. Baker	62	100	1.00
H. E. Baker	63	100	1.00
H. E. Baker	64	100	1.00
H. E. Baker	65	100	1.00
H. E. Baker	66	100	1.00
H. E. Baker	67	100	1.00
H. E. Baker	68	100	1.00
H. E. Baker	69	100	1.00
H. E. Baker	70	100	1.00
H. E. Baker	71	100	1.00
H. E. Baker	72	100	1.00
H. E. Baker	73	100	1.00
H. E. Baker	74	100	1.00
H. E. Baker	75	100	1.00
H. E. Baker	76	100	1.00
H. E. Baker	77	100	1.00
H. E. Baker	78	100	1.00
H. E. Baker	79	100	1.00
H. E. Baker	80	100	1.00
H. E. Baker	81	100	1.00
H. E. Baker	82	100	1.00
H. E. Baker	83	100	1.00
H. E. Baker	84	100	1.00
H. E. Baker	85	100	1.00
H. E. Baker	86	100	1.00
H. E. Baker	87	100	1.00
H. E. Baker	88	100	1.00
H. E. Baker	89	100	1.00
H. E. Baker	90	100	1.00
H. E. Baker	91	100	1.00
H. E. Baker	92	100	1.00
H. E. Baker	93	100	1.00
H. E. Baker	94	100	1.00
H. E. Baker	95	100	1.00
H. E. Baker	96	100	1.00
H. E. Baker	97	100	1.00
H. E. Baker	98	100	1.00
H. E. Baker	99	100	1.00
H. E. Baker	100	100	1.00
H. E. Baker	101	100	1.00
H. E. Baker	102	100	1.00
H. E. Baker	103	100	1.00
H. E. Baker	104	100	1.00
H. E. Baker	105	100	1.00
H. E. Baker	106	100	1.00
H. E. Baker	107	100	1.00
H. E. Baker	108	100	1.00
H. E. Baker	109	100	1.00
H. E. Baker	110	100	1.00
H. E. Baker	111	100	1.00
H. E. Baker	112	100	1.00
H. E. Baker	113	100	1.00
H. E. Baker	114	100	1.00
H. E. Baker	115	100	1.00
H. E. Baker	116	100	1.00
H. E. Baker	117	100	1.00
H. E. Baker	118	100	1.00
H. E. Baker	119	100	1.00
H. E. Baker	120	100	1.00
H. E. Baker	121	100	1.00
H. E. Baker	122	100	1.00
H. E. Baker	123	100	1.00
H. E. Baker	124	100	1.00
H. E. Baker	125	100	1.00
H. E. Baker	126	100	1.00
H. E. Baker	127	100	1.00
H. E. Baker	128	100	1.00
H. E. Baker	129	100	1.00
H. E. Baker	130	100	1.00
H. E. Baker	131	100	1.00
H. E. Baker	132	100	1.00
H. E. Baker	133	100	1.00
H. E. Baker	134	100	1.00
H. E. Baker	135	100	1.00
H. E. Baker	136	100	1.00