

to inquire calmly into the value of this new gold field. The particulars of the discovery thus far received are but few. The party found "indications" before they had journeyed far into the land; then they began to strike the "color," and at last washed out pin-head gold. The hill-sides everywhere showed croppings of auriferous rock. We do not doubt a word of all this, and would accept twice as much again, and still respectfully decline to be astonished. We should be astonished only if Custer had not found signs of gold all around him. For he is in the centre and stronghold of the greatest gold belt in the world—that which comprises Montana, Idaho, Wyoming, Colorado, Arizona, California and New Mexico. Through all that country, gold is the most commonly distributed of metals. Traces of it can be found in every river and every brook. It can be washed out of the debris in every old ravine. All the quartz rock has invisible gold, locked in its hard embrace. But, unluckily for the miner, this gold while everywhere existing, is nowhere abundant in one place, but always thinly scattered, and in many districts so blended with base metals or sulphur that it costs more to get it out than it is worth. The Spanish proverb, "It takes one gold mine to work another," is notoriously true of the great Western gold fields. Since Sutter's discovery in 1848, gold mining in the West has been a dreary history of failures, interspersed with a few successes. The amount of gold taken out of the ground in certain rare localities has been large, and a small number of people have become enormously wealthy in their ownership of rich deposits and well conducted works. The joint production of these few mines, and the individual workings and findings of thousands of adventurers, make up the total yield of gold which looks so large on paper in the annual returns. The same labor and capital put into almost any other business that can be named, yield better fruits than when invested in gold mines. This will nowhere be seriously disputed, and therefore we do not deem it necessary to warn intelligent men against making an immediate exodus to the Black Hills. If General Custer has discovered gold fields equal to those of Idaho, Colorado, or New Mexico (and that would be saying a great deal), he has merely added another district to the enormous area of a kind of land more productive of disappointments than any other in the universe.—*N. Y. Journal of Commerce, August 13.*

#### About Gas.

#### HINTS ABOUT BURNERS AND LIGHT.

A gentleman who claims to have tested the matter thoroughly gives the following information regarding gas lights—

If a flame consuming eight cubic feet of gas per hour gives a light of sixteen candles per hour and this be reduced to six feet (three-fourths of eight) then instead of the light being equal to twelve candles (the theoretical proportion), it will only be equal to eight candles, causing a loss of thirty-six per cent.

So on until, lastly, if the flames be reduced to one and one-fourth feet per hour a small blue flame will be seen, which gives no available light. If you have four two and one-half feet jets in your room (making a ten foot burner) you will get a light equal to twenty-eight candles.

William Richards, an English writer on the subject, furnishes the following table illustrating the true proportion between the amount of light produced and the amount of gas burned in an ordinary fish-tail burner, and the table is indorsed by the engineers of the New York gas house—

Consuming one and one half feet gives light of a candle. Consuming two and one-fourth feet gives light of two and two thirds candles. Consuming three and one half feet gives light of six and one fourth candles. Consuming four and one half feet gives light of ten candles. Consuming five feet gives light of twelve and one half candles. Consuming seven feet gives light of eighteen candles.

Mr. Richards says that the theatres lighted by two hundred small jets consuming two hundred and fifty feet per hour and giving the light of two hundred candles can

be lighted as well with fourteen seven foot burners, which would use only seventy-seven feet of gas per hour—a saving of one hundred and seventy-three feet. If you want a small light have a big burner and turn it down, for gas coming through a large orifice gives more light than when forced through a small one. Light is also diminished by using globes, especially if of ground or painted glass, the latter destroying sixty per cent. of the light.—*Cleveland Plaindealer.*

#### The St. Louis Bridge.

The dimensions of the bridge exceed that of any similar structure in existence. True, suspension bridges have been built with spans of over 1,000 feet; but no arch (the most substantial of all bridges) has a span of 520 feet, as the center arch of this bridge has, while on either side is a span of 502 feet. The whole length of the bridge and its approaches is 4,414 feet. The foundation of the eastern abutment pier had to be sunk to the enormous depth of 110 feet 6 inches below low-water mark before it could rest on the solid rock. By an ingenious and, we believe, novel arrangement of the immense steel tubes which form the arches and support the roadways above, the principle of expansion and contraction by heat and cold is so taken advantage of, that in hot weather the expansion will throw the burden of support on one set of these tubes while the others will be released, and may be removed in case of repair being needed, and replaced; and the contraction during cold weather will so relieve the other set that they, in turn, may be removed. The bridge is in two stories; the lower floor carrying double railroad tracks, the upper a magnificent highway, 75 feet wide, on which are four tracks for street-railroad cars or ordinary vehicles, and on each side a capacious road for foot passengers. The whole cost, including the tunnel, which, though made by another company, is virtually part of the bridge, is about \$10,000,000.

When the whole scheme is completed, the bridge, the tunnel under the city, and a Union depot erected in Millcreek valley, the convenience and certainty with which western connections can be made, must add greatly to the business of St. Louis.—*Our Expressman.*

**PRICES OF NOTED AMERICAN HORSES.**—The following are some of the prices paid for American horses; Kentucky, \$40,000; Norfolk, \$15,000; Lexington, \$15,000; Kingfisher, \$15,000; Glenig, \$10,000; Smuggler, \$15,000; Blackwood, \$30,000; Jay Gould, \$30,000; Dexter, \$33,000; Lady Thorne, \$30,000; Jim Irving, \$30,000; Goldsmith Maid, \$20,000; Startle, \$20,000; Prospero, \$20,000; Rosalind, \$20,000; Lulu, \$20,000; Happy Medium, \$25,000; Clara G., \$30,000; Pocahontas, \$35,000; Edward Everett, \$20,000; Auburn Horse, \$13,000; Judge Fullerton, \$20,000; Mambrine Bertie, \$10,000; Socrates, \$20,000; George Palmer, \$15,000; Mambrino Pilot, \$12,000; George P. Daniels, \$8,000; J. G. Brown, \$12,000; Flora Temple sold, when aged, for \$8,000, for a brood mare; \$20,000 was offered and refused for Tom Bowling last summer; \$30,000 was offered and refused for Bassett in his three-year-old form; \$25,000 will not to-day buy Baywood or Asteroid; \$40,000 was offered and refused for Woodford Mambrino, and \$20,000 for Thorn-dale.—*New York Mail.*

**TO BISHOPS AND OTHERS.**—For the benefit of those who desire a complete and faithful record of their families, when born, blessed, confirmed, etc., in their respective wards, and with a view of securing uniformity of information under suitable headings, a Bishop's Record has been carefully compiled by the authority and sanction of the bishops and the leading men in Israel, and as such is recommended, hoping the bishops and brethren of wards will avail themselves of a correct record that may be handed down to posterity.

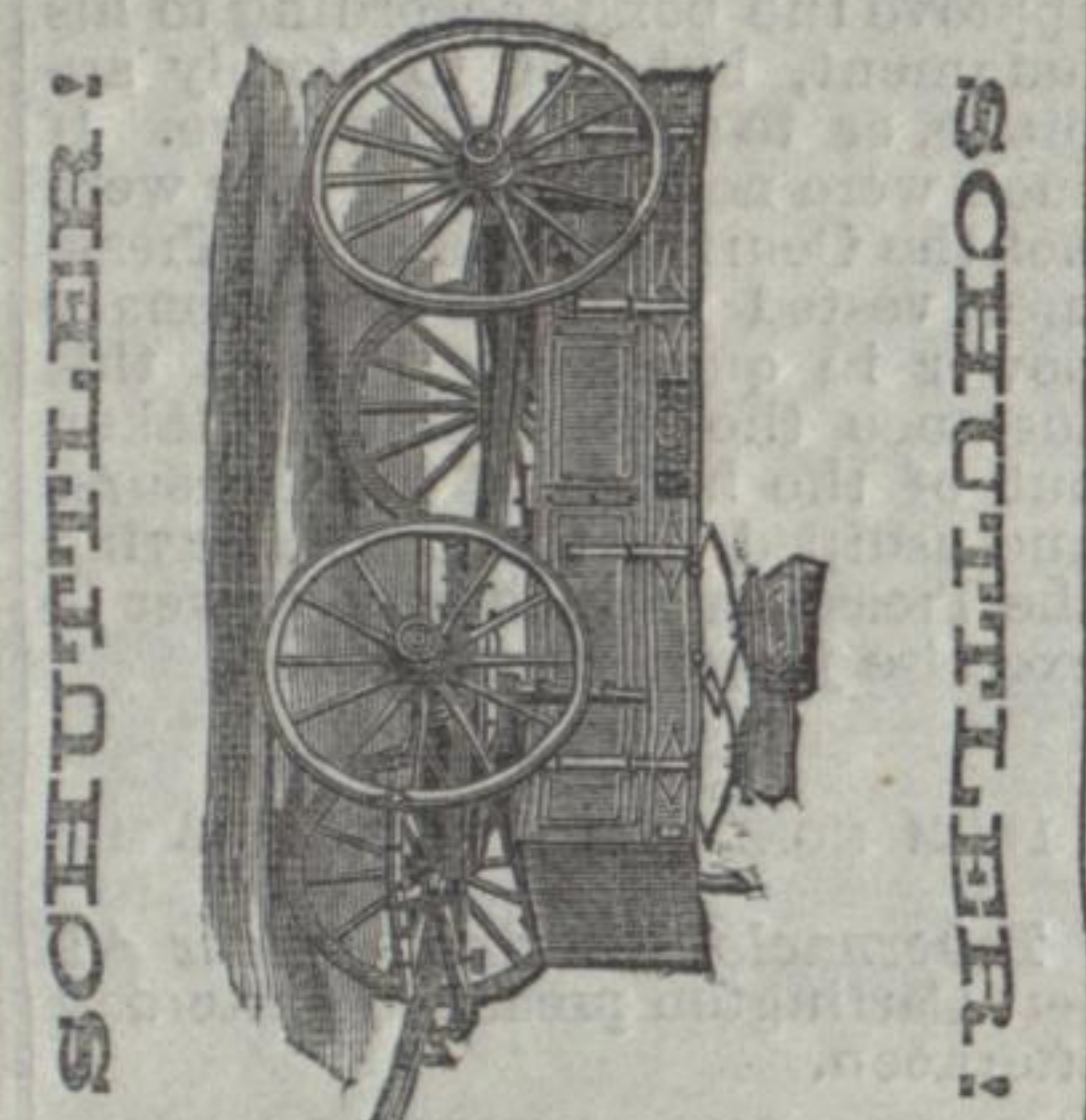
Respectfully yours,  
EDWD. HUNTER,  
L. W. HARDY,  
J. C. LITTLE.

**HONOR TO WHOM HONOR IS DUE.**—A sense of duty impels me to say that Dr. C. W. Higgins' medicines have done for me what no other physician's have been able to do. I have suffered for eighteen terrible years with the worst form of epileptic fits and have been treated by the most eminent physicians of Europe, but without relief; I have also had the advice of some of the local physicians in this City, but until eight weeks ago, when Dr. C. W. Higgins tried his new and wonderful method of treatment, I had given up in despair, having been subject to these fits every six or nine days for eighteen years, and since Dr. H. took my case in hand I have not had a symptom of them, and I wish to make known far and near to every one afflicted with this awful malady the physician that cures. John Worthington, Second South Street, 14th Ward, Salt Lake City.

**DR. C. W. HIGGINS.** Dear Sir—I have used a portion of the medicines you prepared for me and am much gratified in informing you that I am well. I have faith in your remedies and can with pleasure recommend them to all who are suffering from the want of proper medical treatment. Your liniment cured me of neuralgia at once, and my other complaints have all left me now, never to return, I hope, if they do I shall call on you at once. I consider your remedies truly wonderful.

I am with respect,  
MRS. B. S. REHNSTROM.  
Tenth Ward, Salt Lake City,  
Aug. 14, 1874.

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JOHN W. KERR.  
Dated at Salt Lake City, April 9th, 1874.  
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