· Correspondence.

On Manufactures Applicable to Utah.

SALT LAKE CITY, October 30, 1875.

Editor Deseret News:

industries, at home and abroad, and promote electricity. tal resources of Utah, not solely for | constantly increasing.

out wherein there is hidden of soda. wealth, and that then among our people will be found those who can successfully utilize the bases, for that there are men here from almost all portions of the civilized pans, and retorts. world whose previous engagements in their native land enable them to understand how to produce articles to successfully compete, in a commercial point of view, with floor are leaden curtains, which the world, or, in other words, who understand the minute practical operations so requisite to success, ing or floor, the object being to which are only known to the manufacturer, and never fully given in written authorities, is beyond doubt.

I propose to take, in their natural order, branches of industry (for one provided. is the stepping stone to another) and to be an exporting country, and drops of acid falling, which resemconsequently find employment for | ble a rain shower. our people, spreading, among all, When a sufficient quantity of the wealth. And it is certain no place dilute acid is obtained it is drawn on the face of this earth can be off into leaden evaporating pans, found that will vie with Utah in and therein evaporated until the its supply of the elements awaiting acid shows, by Baume's acidometer, the labors of man to render them a gravity of 58° or 59°. If you carry most valuable. Telesto to worro

phuric acid, commonly and truly The pans are formed of sheet lead tions. This belief checks progress recognized as the base of manufac- without joints, folded at the corn- in its adherents and unfits them tures, and so important a part it ers, the bottoms of which are placed for their supposed mission. plays in the laboratory that it has on iron plates, set in masonry, so While we think that our stanbeen called the "chemist's fire."

composition of this most important lead. It is usual in manufactories that it is their privilege to think shots. chemical are found in this Terri- to cease the concentration at this the same of theirs. We should not tory, and are the following - sul- point, as most operations do not re- deny to others the possession of phur and nitrate of petassa (salt- quire a stronger acid. But in the some good, even if we think we petre), or nitrate of soda.

Lake City for \$20.00 a ton.

Springs, about 65 miles from the tact with it, which was attached to social ethics. In the same ratio as terminus of the Utah Northern | the still by clamps and could be re Railroad. The reads are very diffi- placed at pleasure. The cost of higher grades of civilization they cult of travel at present, but no glass and platina stills is about the bave departed from the virtues of doubt when a demand is instituted same in the long run, owing to the their ancestors. Not of necessity, for sulphur means will be expend- frequent breaking of the glass. but because that knowledge is ed to improve the roads.

al places in the southern part of platina, for they immediately form Utan The nearest depo-it I have an alloy and melt. Such holes revisited lies in a cave in Tintic Min- quire gold solder for patching, this comforts and luxuries of life, have ing District, about 18 miles from trouble is entirely avoided in the added but little to the weight of the U.S. R. R. It can be freighted iron still. The distillation of the meral obligations, or to the social specified.—Ex.

on it therefore, no calculation can it is then found that the acid, on ing to promote private and public committed at Nottingham for

be made as to extent.

ally made, ga out had an

cents a pound.

water. Sulphuric acid varies greatly in gravity. Oil of vitriol has the spe- Why should inspired records be

1b. Its market value in this city every pound about 2 or 22 ounces of buried in the earth for centuries? is about 15 cents per lb. To arrive water. The reactions that take Why should social customs be conat the amount consumed would be place in the chamber are, the sul- demned because they were practis difficult; some iden of the con- phurous acid gas, formed from the ed in patriarchal periods?

THE FACTORY

Is composed of a lead chamber, a brick furnace, leaden evaporating

The leaden chamber is constructed first by forming a wooden framework lined with sheet lead sus pended alternately from roof to have a space of one to two feet from their free margins to the ceilprocure an admixture of the gases; the floor of the chamber is covered with three or four inches of water. An exit of lead, for emptying the chamber's contents into the pans, is

The brick furnace is attached to follow them out in their practical one end of the leaden chamber by operations, giving the locality from flues. In the furnace is placed the which can be obtained the material, nitre and sulphur, the former in a its present probable cost laid down crucible, where it is decomposed by in Salt Lake City, its distance from the heat generated from the burn- day. railroad communication, its home ing sulphur, the fumes of which consumption, its consumption in pass into the chamber. The vapor the United States, and when it can of water is supplied by steam from be shipped abroad, will give the a boiler, which serves to agitate the present rates and profits, fin- gases, to facilitate their combina- be explained the manufacture of ally the cost of successfully tion and form sulphuric acid, which putting in running operation condenses and falls to the bottom. the industry. By so doing it By listening to the action going on will tend ultimately to cause Utah in the chamber you can hear the

it any further in strength the lead- that is good is too narrow in its The first subject treated of is sul- en pans are liable to be destroyed. that the direct heat of the furnace | dard of right is more perfect than The materials that enter into the does not come in contact with the that of others, let us also admit case of refining coal oil the acid have more than they. Sulphur is found native about 250 must mark 66° Baume's. Again, Southern Railroad, whose present recourse to, the acid from the pans ourselves. terminus is York, in immense de- is, by a syphon made of lead or plaposits cropping out of the earth. | tina, introduced into glass or plati- | men must be untrammeled to reach I have been unable to estimate the na stills, varying in capacity from their highest development. The amount, but some idea may be ten to twenty gallons when of old reigions have been endeavorformed when it is considered that | glass, and if of platina sometimes | ing to confine to the beaten track shafts have been sunk over thirty capable of holding over 100 gallons. of the past centuries the throbbing

feet in the deposit without pierc- I will here remark that concen- impulses of an age which God's ing it and the superficial area trated sulphuric acid exerts no ac- providences and the prophetic inextends several miles, from tion on cast iron, and particularly spirations of the past declare shall which I have made several on white cast iron is this the case. be one of great changes, from assays averaging over 80 per cent. I am somewhat surprised that this which shall be evolved higher conpure sulphur; it is exceedingly easy fact has not been universally resort- ditions of human exi-tence. of extraction, and sufficiently pure ed to. I know that it is practicable, The antagonism of Christianity for this manufacture. Teams can for I had a 600 gallon white cast iron has forced science on to the lead of drive to the deposits and lead. At still and used it constantly for many progress. But, while the developpresent it can be laid down in Salt months without any perceptible ments of science may greatly modwear, except in the goose neck, ify the physical conditions of life, There are also deposits at Soda where the dilute acid came in con- they have but little influence on Great care must be taken that lead made to minister to their evil pro-Nitrate of potassa exists in sever- does not come in contact with the to Salt Lake City for \$6.00 per ton. | acid is carried on until the Baume's | virtues of communities. It requires cooling to a temperature of 60° Fah- virtue, to perpetuate national life. Nitrate of potassa can be artifici- enheit, is exactly 66° B, or stand ard sulphuric acid. This acid is Nitrate of soda has not yet been | then syphoned into ten gallon cardiscovered. It answers in every re- boys, and sealed with earthen ware salt, is generally obtained from which is then ready fr market; the but to give it new and lasting im-South America and costs about 4 object of careful sealing is that the pulses; to gather together into one, acid of this strength has a great Lastly is required vapour of affini y for water and abstracts the water from the air to the loss of its | fest for man's redemption.

tinuous.

be detected in a gallon of water.

pends on its capacity.

cent and a quarter per pound.

ture three carboys a day will be desire for something new, or to furabout \$2,000, from which a profit ther gratify his appetites and paswould be realized of about \$23 per sions.

The various materials, glass carbe treated of under their approprinitric and hydrochloric acids.

CLARENCE BARRETT.

Scattering Thoughts.

SALT LAKE CITY, November 4, 1875.

Editor Deseret News:

A religion which teaches its followers that they have absorbed all scope to revolutionize social condi- the governor.

It is well to remember the old miles south of Salt Lake City, sit- as freights on sulphuric acid are adage, that "like begets its like," leading through this Territory and bring the acid to the above stand | tends to develop sentiments of | ry. on the proposed line of the Utah ard. To do this, distillation is had good-will and forbearance towards

The thoughts, the aspirations of

communities have developed the died at the good old age of eighty. pensities.

The developments of science, and the additions thereby made to the

The mission of Joseph Smith unionist workmen. was not to develop something new, and to bring to bear upon the world all that God has made mani-

price from 2 to 10 cents in gold per cific gravity of 1.9 and contains for valued less because they have been Ex.

sumption may be arrived at, when burning sulphur, is converted into Would scientific facts be any less it is known that every drum of sulphuric acid by abstracting one valuable because discovered under caustic soda represents nearly its atom of oxygen from the nitric the shadows of Vedaic temples, in out a perfect flood of new books of weight in sulphuric acid, that every acid, till this is converted into the far remote periods of Asiatic travel. Indeed the chief end of the 40 gallons of coal oil has taken 28 nitric oxide. The nitric oxide civilization? Does it depreciate I have devoted a great portion of lbs. of acid to purify it, and that formed now acts in a very pe- astronomical facts because they time from my youth up to the study every electric telegraph line re- culiar manner, coming in contact may have first been recorded in write a book about it. - Ex. and practical working of chemical quires the presence of this acid to with the air, admitted with the cuniform characters in the tile librasulphurous acid, it immediately ab- ries of the Chaldeans? Whether Jos. especially the last six years in at- Utah consumes about 300 lbs. of stracts from it one atom of oxygen, Smith discovered the record of Mortempting to develop the fundamen- this acid daily, and the amount is forming yellowish red fumes of ni- mon by accident, or through Divine trous acid. The nitrous acid again inspiration, does not of necessity individual aggrandizement, but to It is a corrosive poison, charring gives up one atom of oxygen and is affect the principles taught in induce others with necessary capi- organic matter. Very dilute it is again converted into nitrous oxide, the Book of Mormon. If it elucital to inquire into and practically semetimes used in medicine, and and continues this action as long as dates the principles of the Decalogue, demonstrate our territorial wealth. many salts are formed from it, for oxygen is supplied by the air. By if it is the embodiment of the holy It seems but needful to point instance glauber salts, or sulphate this reaction it will be seen that it precepts taught by Jesus and his is possible to manufacture sulphu- apostles, it cannot be discarded by ric acid with but one outlay for ni- those who accept the precepts of tric acid, as the operation is con- the Bible. It is none the less pure in its ethics, none the less adapted The chemical test for sulphuric to raise man in the scale of intelliacid is chloride of barium, which gence, because it is the narrative of only persons of great mental capagives a white precipitate, totally the otherwise unrecorded civilizainsoluble, of sulphate of baryta. tions of the Western Hemisphere. possess brains which are consider-This test is so delicate that a single There is no reason why truth might ably heavier than the average drop of sulphuric acid can readily not be dug from the hill Cumorah, brains possessed by ordinary but the grave of the ancient civiliza- sane people. The cost of erecting a manufac- tions of this continent, as well as tory for sulphuric acid entirely de- from the debris of Asiatic antiquity.

This is a gathering age, an age of The proportions of sulphur and careful, persistent research. The nitrate of potassa are 2 lbs. of nit. polar and tropical regions, the rate of potassa to 10 lbs. of sulphur, mountain peaks and the lowest which will produce 30 lbs. of sul- valleys, the fer ile plain and the phuric acid of commerce and it barren desert, the planetary worlds will cost at the outside about a and the bowe's of the earth are being made to contribute some-The capital required to manufacthing to gratify man's insatiable

To guide the impulses of this im pulsive age, to save mankind from boys, sheet lead, retorts, &c., will the whirlpool of their own passions, to lead the nout of present dark ate heads. In the next article will ness by the high and holy light of Divine Inspiration to universal intelligence, was the mission of the Prophet Joseph Smith.

JAMES A. LITTLE.

NEWS NOTES.

Mr. Bright has declared that in mental power girls are not inferior to boys.

Nebraska's new constitution has gone into effect by proclamation of

vania.

noteworthy for the accuracy of its inch wide.

The old castle at Nottingham, England, is to be converted into an art museum at a cost of £16,000.

The British Museum employs a staff of 326 persons, only eighty nine uated on the main road of travel double first class, it is profitable to and that a kindly charity to others of whom are employed in the libra-

> Congress is going to be asked to appoint a committee of scientists to study up the insects breeding in the Rocky Mountains.

The Boston Pilot thinks that if men and newspapers did not let girls know what bad is they would not do bad.

one-fifth of its taxable property, and there is an effort toward repudiation.

shown in the fact that 359 genealog- | coal gas. ical works have appeared in the United States since 1860.

Mr. James Augustus St John, a

It seems now that Singer had five wives instead of three, and no wonder that the poor man had to get up some kind of a sewing macaine.

The failures for the past nine months aggregated \$131 171 0 0. That sum represents exactly the inflation of business for the period

Under the new English labor No work has been performed up scale marks 14° B. in the distillate; strong religious sentiments, tend- law, twenty seven men have been

of his life.

The castor bean is cultivated in Kansas, and a castor oil factory has been erected at Fort Scott. Even the West is not wi hout this pleasant and exhilarating beverage.-

The Territorial Enterprise reports that in Nevada there is plenty of money to loan to those who don't want it. That is very much the case elsewhere.-Ex.

The season in London will bring modern Englishman seems to be to gad about over the globe and then

Thomas Turner, a prisoner, travelling handcuffed in charge of a warder and a policeman, jumped from an express train going at full speed near Chelmsford, in England, October 8.

Henry Stewart, whose employment was feeding animals in French's Circus, had his hands torn to shreds by a lion in Chicago, and died from the injury. The animal caught him as he reached into the . cage for a trough of water.

Investigation has shown that not city but also lunatics occasionally

English and German authorities have just discovered that French cooking is the best in the world, not excepting the kitchens of Oceaniea, and more over that French women dress with more taste and originality and economy combined than their sisters across the channel and the Rhine.

A Richmond journal furnishes facts and figures to show that the negroes, obeying a law of their nature, are gradually drifting to the tropical or semi-tropical regions of the country. The editor says the black man's "passage towards the Isthmus of Darien is a matter of philosophical certainty."

The most appalling news which has been received from the Old World for a long time is to the effect that the matrimonial newspapers in London are to be suppressed. Old maids and timid bachelors, whose modesty forbids their courting, except through proxy, strongly protest against the contemplated outrage. - St. Louis G .-Democrat.

London Bridge is to be widened by the addition, on each side, of wrought iron arched ribs, carried on piers built over the present star-Fifteen cents a bushel is the price lings or cutwaters. By this means of apples in some parts of Pennsyl- twenty-two feet is added to the width, giving fifty-four feet of road-The Austrian army will have the way for carriage traffic, and footnew bronze-steel cannon, which is ways on each side eleven feet one

> The city of Ahmedabad, the oldest and at one time one of the most beautiful cities in India, is declared by the Sanitary Commissioner to have had no sanitary arrangements for several centuries past, and the earth has become so impregnated with abominations that not a drop of pure water can be obtained within the city walls; even garden plants die if watered with it.

Experiments have been made at Bordeaux for the employment of cork in gas for lighting. The results were so favorable and so economical that it has been decided to The debt of Alabama is equal to fit up works for lighting the town of Nerac on that system. The waste obtained from cork manufactories is distilled in retorts, and the The rapidly growing interest in flame thus obtained is said to be genealogy and family history is brighter and whiter than that from

The Los Angeles (Cal.) Herald says that at the present rate of increase it is estimated there will be voluminous writer of books on his- in four years 1,000,000 stands of bees tory, politics and theology, has just in Los Angeles, Santa Barbara, and San Bernardino counties, which will produce annually 100,000,000 pounds of honey, worth \$20,000,000. which is more than the value of the sugar and molasses crop of Louisiana, Texas and Florida combined.

Two merchants at Nashua, N H., were recently running each other on stockings. The first trader marked down the specimens at his door, and after his rival had passed and noted the change, resumed the former prices. The trick was repeated every morning for a week threatening and impeding non- or more, until the second trader was selling stockings which cost at General Massey's reported insan- wholesale twenty-five cents for five but to re-establish the standard of ity is denied by a personal friend of cents. This was the first trader's right, which had been lost to man his, who says that he is now en opportunity. He engaged the serspect equally as well as the potassa stoppers luted with plaster of Paris, for ages. Not to check progress, gaged on the greatest literary work vices of several girls and boys, and before the second trader was aware of the fact, his whole stock of stockings had been transferred to the counter of his rival at five cents per pair, and were being sold by him as "a bankrupt lot-at a great sacrifice"-and yet at a splendid profit.