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CARRIAGE PAINTING and TRIMMING Seatty and

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Blackberries.

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SALT LAKE CITY IRON CO. H AVING PURCHASED THE SAI thereto the Tools and Machinery Schools to WM. J. SILVER, are prepared to do

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FORGING, TURNING,

BORING and PITTING UP **W朗。本、育1万平年度。**

Mining Duction

BUSINESS DIRECTORY

Keep Them Before the Public. Carl C. Asmusso

Sells watches, clocks, and jewelry. F. Anerbach & Bro. Sell dry goods, gents' furnishing a Joe. Barker Sharpens saws, repairs stores, all cutlery, lock and gunnith wor

Miss Mary H. Barker Practises as physician and sure Practises as an attorney-at-law, and ives special attention to collections and Calder & Careless

Sell Mason a Hamlin and other organs, pianos, fancy goods, holiday presents, and all kinds of musical instruments and mer-chandse, and take second-hand planos and Dr. A. W. Calder

Practises in dentistry Sells hardy grapes, fruit trees, and Kitta-Charles J. Cannon. Does all kinds of tailoring, including The Co-operative Blacksmiths (Malquist, Cottle, and Sundquist) Do all-kinds of blacksmithing, carriage and wag-on-making, and horseshoeing.

Davis, Howe & Co.

Do all kinds of milling and mining machinery work, wrought and cast iron work, and iron and brass work of all descriptions George W. Davis

Sells choice teas, coffees, family grocer-ies and provisions, and buys dried fruits and grain of all kinds. Sell New American sewing machines, Ed-tey and several other kinds of organs, pianos and all sorts of musical instruments and merchandise, and take second hand or-gans in exchange.

Does various banking business and seives savings on laterest. Dichl & Rheinbold Are exclusive agents for Tilton's Hair roducer, for Utah, Wyoming, and Idaho. Sells the very best live geese feathers. George Dutiford, sett. Sells boots and shoes, hats and caps, dies' furs, gents' gloves, etc.

Will carry you wherever their stage lin Ireland & Watson Sell china, crockery, glass and bar was amps, lamp trimmings, chimneys, coal o etroleum, fluids, etc., wholesale or reta Wm. Irvine the brushes, French ornar

Wm. Jennings, Sons & Sadle: lesale and retail, staple and fan-ladies' underwear, men's fur-ladies', misses' and children's and dry goods, groceries and se generally. J. M. Joelson dads of furniture,

Sells best quality California est brands Utab flour. ddell & Brown utactures Malcom's Patent Refrige-

Does business as attorney and counse Do anything in the tin, sheet iron opper smith line, also in the gasatting Morris & Evans Deal is vantels and grates and

H. Myers

Does all kinds of planing and sawing O'Nell Mico. Bill onid. Do all kinds of wagen and carriage work, lacksmithing, carriage painting and trim-

Reedall & Durling (Utah Steam Cracker Factory) Make and sell a first class article of crackers.

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The Salt Lake Iron Company Do all times of iron and brass cast orging to sing, boring, fitting, etc.

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dry goods, clothing, boots and shoes, and family groceries very low; t bey re agents for the Domestic se of " or

Forward goods to all points in Utah and authorn Nevada, hand le, sample, and with

Make and sell Pale Savon, Castile, Walnut Oil Shaving, Variegated Toilets, Thomas' Patent and Fullers' Soap, also Adamantine or Miners' Candles, and buy all kinds of Sell dry goods, clothing, hats, dress goods lobons, hosiery, carpets and general mer handles of all descriptions. The Warm Spring Baths.

Private and plunge, for ladies and gen-

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TONS CORN

S. W. SEARS. Benedict, Ball & Co., BOOTS and SHOES,

Toughened and Hardened Glass and Other Materials.

Notwithstanding the many con-turies during which the manufac-ture of glass has been known, its application has been restricted to a imited number of uses, owing to its great fragility. Clean, transparent and elegant, no substance would be so admirably adspired to a vast variety of household used as glass, were it not for its extreme liability to mature. This difficulty has at length been overcome by a Franch philosopher. Mone Franch French philosopher-Mons. Fran-

cois de la Bastie. The process consists, broadly stated, in bringing the glass up to the melting point, and then immersing it in a bath of a heated oleaginous compound from which it is instantly withdrawn. There are, however, many delicate considerations connected with the details of the operation on with the details of the operation on which the success of the manufacture entirely depends. Should the glass not be sufficiently heated it will not be susceptible to the influences of the bath, whilst if it be overheated, it will loss its shape. The constituents of the bath and its temperature besides, materially affect the result. The costs of temfect the result. The costs of tempering are very small, and the necessary machinery inexpensive.

That he has entirely succeeded in his endeavors we can testify, from a personal inspection of a variety of samples at the offices of Messrs. Abel Rey & Bros., of 29 Mincing I are, who are the representatives of Mons. de la Bastie, and the

agents for the sale of the patent.

The principle of hardening either

which has been invented and pa-tented by Mr. John Macintosh, C. E., is perhaps along with that for toughening glass, amongst the most extraordinary, and at the same time simple discoveries of the present era. In the case of stone-breakers, the chilled jaws used for cruening the stone have long been knewn to be able to resist a tear iron at once succumbs. Mr. Mac-intosh has pushed his experi-ments further, and has succeeded by submitting common glass to it as hard and as brilliant as the diamond. All that is required is to have the glass polished by a lapidary, when it has a brilliancy which must be seen to be comprehended. must be seen to be comprehended.
Brilliancy is merely a result of extreme hardness, and glass or any metal which has been prepared according to Mr. histintosh's patent, possesses this quality in the highest degree. Common sand, when heated in the same manner and suddenly chilled, acquires a hardness which makes

sequires a hardness which makes it most suitable, whether made up into wheels with tannite, or simply used as dust. for cattle, or simply the limits of its use. A further and most valuable adaptation of the system is to the iron plates of ships and to the shoes of horses. In these instances it is only the outer surface which is hardened. It is well known that in the case of projectiles intended to be used against

various substances are to be over-turned. Of metals, that to which we have been wont to look as pos-sessing the greatest degree of hard-ness, steel, has been held forward as affording the most remarkable example; but this has been proved to be a fallacy by the jaws of the stone-breaker already mentioned, and still infinitely more so by the nibs which, when properly made surpass corondum in that property The two inventions ought to go our saucepans made of this elegant and cleanly material, whilst for all the many uses of trays, spoons, and even soup ladles, it would be equal-ly adapted. The inconvenience of breken watch-glasses need ne longer be dreaded, and the chim-neys of our lamps, which so often

the poker or tongs which we use in our fireplaces. There are, indeed, so many cases where glass might be most profitably substituted for the metals now simployed, as well from its cleanliness as from its lightness, that we may look forward to a com-plete revolution in our household and other appointments.— English

> MINING STOCKS. AFTERNOON BOARD.

San Francisco, May 18. erson, 934; 9; 934, a 90

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DOYDLE D D. FIRST CLASS QUALITY

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Fine Black Job Inks Fine Gold Size in 1 lb. cans Fine Colored Inks in 2, 4 and 8 oz.; cans.

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Splendid Investment to Capitalists, or persons desirous of making a permanent home in Utah. Embreding in all 207 Acres, or then

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6 00 AM

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Trains

3 40 PM

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Leave Salt Lake City at 7:00 a.m. Stopping for breakfast at Clinton's, a Assive at Half-way House at 0:20 a in Leave Half-way House at 11:00 p.m. Arrive at Salt lake City at 1:00 p.m. The stages of the Western Stage Co. con-nect with trains at Half-way House for roccele, Stockton, Ophir and Dry Canyon, and street earnat Salk Eake Oity. Pastengers will please purchase their telesis at the others. the U.C. Depot not later than 50 clock p.n H. P. KIMBALL, Supt.

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TERMS-IN ADVANCE.

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