MANUFACTURES IN BIRMINGHAM.

A week's work in Birmingham, England, in its aggregate results, is something wonderful. It comprises the fabrication of fourteen million pens, six thousand bedsteads, seven thousand guns, three hundred million cut nails, one hundred million buttons, one thousand saddles, five million copper or bronze coins, twenty thousand pairs of spectacles, six tuns of *papier-mache* ware, £38,000 worth of jewelry, four thousand miles of iron and steel wire, ten tuns of pins, five tuns of hair pins, hooks and eyes, and eyelets, one hundred and thirty thousand gross of wood screws, five hundred tuns of nuts, screw bolts, spikes, and rivets, fifty tuns of wrought iron hinges, three hundred miles length of wax for vestas, forty tuns of refined metal, forty tuns of German silver, one thousand dozen of fenders, three thousand five hundred bellows, one thousand roasting-jacks, one hundred and fifty sewing machines, eight hundred tuns of brass and copper wares, besides an almost endless multitude of miscellaneous articles, of which no statistics can be given, but which, like those enumerated, find employment for hundreds and thousands of busy hands, and are destined to supply the manifold wants of humanity from China to Peru.—*American Artisan.*

INGREDIENTS OF PRECIOUS STONES.—Very few persons who admire or deal in precious stones are acquainted with the intimate structure of these valuable minerals; and most persons will be astonished to learn that these bodies, apparently so solid and homogeneous, are often full of minute cavities, which inclose a liquid. Sapphires generally contain fluid cavities. Sir David Brewster met with one no less than a third of an inch long, but other authors have met with one more than one-tenth of an inch in diameter. These are usually half filled with a mobile and highly expansive liquid, which is considered to be carbonic acid. Sapphires are composed of pure alumina, colored by a metallic oxide. The ruby is also colored alumina. Cavities, we are told, are far less numerous in these than in sapphires, and moreover they appear to contain only water or a saline solution.

Occasionally a liquid with similar characteristics to that observed in sapphires is to be seen but not often; and we are thus led to suppose that the stone may be produced by different reactions and under different physical conditions. Emeralds are often full of cavities, which contain a liquid that does not expand when heated, and is apparently a strong aqueous saline solution. The diamond is, of course, the most interesting of all our precious stones, the origin and mode of formation of which has always been a great puzzle to chemists and mineralogists. Its structure has already been studied by Goppert, who discovered what he conceived to be organic remains, and hence infers that the diamond is the result of vegetable decomposition under peculiar conditions. Sir David Brewster first noticed fluid cavities in the diamond, and explained the optical peculiarities of some diamonds by their presence.

Cut diamonds sometimes inclose minute crystals of a different mineral, to which circumstance they also owe their peculiar optical properties. In the diamond, also, the inclosed liquid appears to be carbonic acid, as shown by its extraordinary expansibility. Only one other known liquid has anything like an equal rate of expansion, and that is nitrous oxide. The occurrence of this body in minerals is, it is said, highly improbable, and it seems, on the whole, that we may be justified in including liquid carbonic acid among natural liquid mineral substances.

TRUSTEES' SALE.

WHEREAS, M. P. BELL, by his deed of trust dated July 28th, A.D. 1868, duly recorded in Mortgage Book B, page 49, of the County Records of Salt Lake County, conveyed to the undersigned Trustees the following described property, to wit:

[illegible] in block 49 of Plat D of Great Salt Lake City Survey, in Utah Territory, together with all improvements thereon, lying in and being in Salt Lake City, Utah Territory. In trust, however, to secure the payment of a certain promissory note signed by the said M. P. Bell, and dated July 28th, 1868, and payable to the order of Warren Dusenberry, ninety days after date, with interest from date at the rate of five per cent. per month, and, whereas the said note is now long since due, and finally, together with the interest thereon, unpaid; and, whereas, the holders of the said note, the Bank of Utah, in accordance with the terms and conditions of said deed, and at the request of the legal holder of said note, will, on **Thursday, the 22d day of July, A.D. 1869,** between the hours of ten o'clock a.m. and five o'clock p.m. of that day, at the south front door of the Court House, in Salt Lake City, sell at Public Auction, to the highest bidder for cash, the above described property, to satisfy the said note and all interest that may be due and owing thereon, together with the costs of this trust.

THOMAS MARSHALL,
JAS. M. CARTER,
Trustees.

TRUSTEES' SALE.

WHEREAS, WILLIAM JARMON, by his deed of trust, dated May 5th A.D. 1869, recorded in Mortgage Book B, page [illegible] of Salt Lake County Record, conveyed to the undersigned the following described piece of ground, to wit:

The west half of lot two (2) in block sixty, (60) [illegible] platted in the Great Salt Lake City Survey, situated, lying and being in the 13th Ward in said City, containing five-eighths (5-8) of an acre of ground, being the same premises purchased by the said William Jarmon, of Annie Stansfield, by deed recorded in Record Book [illegible] of Salt Lake County Records. Together with all improvements on the said lot. In trust, however, to secure the payment of a certain promissory note signed by the said William Jarmon, and dated May 5th, A.D. 1869, for the sum of eight hundred dollars, payable to the order of Massey & Dahlquist, sixty days after date, with interest thereon at the rate of three per cent. per month, until paid. And, whereas the said note is now long since due, and finally, together with the interest thereon, unpaid; and, whereas, the holders of the said note, the undersigned Trustees, in accordance with the terms and conditions of said deed, and at the request of the legal holders of said note, will, on **Thursday, the 22d day of July, A.D. 1869,** between the hours of ten o'clock a.m. and five o'clock p.m. of that day, at the south front door of the Court House, in Salt Lake City, Utah Territory, sell, at Public Sale, to the highest bidder for cash, the above described property, to satisfy the said note and interest that may have accrued thereon, together with the costs of this trust.

THOMAS MARSHALL,
J. M. CARTER,
Trustees.

THE

Union Pacific Railroad IS BUILT!

—:o:—

THE COMPANY HAVE OVER

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COFFEE,
SUGARS,
SPICES,

And

ALL KINDS OF GROCERIES.

Carts,
Plows,
Scrapers,
Shovels,
Wheelbarrows,

AND ALL KINDS OF TOOLS.

TENTS,
STOVES,
STRIKING HAMMERS,
STEEL,
POWDER,
FUSE

AND

All kinds of material necessary for Railroad Building or Mining.

Anvils,
Bellows,
Vises,
Planes,
Augurs,
And all kinds of Blacksmith and Carpenters Tools.

TENTS OF ALL KINDS,
BLANKETS,
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And all material for Traveling or Mining Outfits

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In fact, every article needed to build this or any other

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Shovels,
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Picks,
Blankets,
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Nails,
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Doors,
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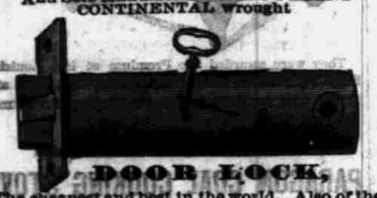

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SIX STYLES NOW IN THE MARKET.
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Special Brands of Lead
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