

NOTICE.
For the purpose of electing
Trustees, receive reports and transact
other business as may come before it.
J. K. HALL, Trustee.
T. C. GIBSON, Trustee.

John Johnson,
BOOT
AND
SHOEMAKER.
All kinds of Boots, Shoes and
Slippers made, from \$3.00 to \$5.00
per pair.
CALL AT THE
CILDED BOOT,
22 South St., East of Commercial.

O'NEIL & CO.,
PROPRIETORS
Salt Lake Shops,
ONE BLOCK WEST OF WALKER BROS.

BLACKSMITHING
AND
Wagon Work
OF ALL KINDS.
CARRIAGE PAINTING
And TRIMMING Neatly and
Promptly Done.
Horse-Shoeing a Specialty.

LOCUST
AND
MULBERRY
TREES!
FOR SALE CHEAP,
From 25c. to 75c. Each.
Apply to
WM. A. ROSSITER,
President's Office.

Hardy Grapes,
Fruit Trees,
AND
Kittatiny
Blackberries.
D. O. CALDER,
20th Ward.

SALT LAKE CITY IRON CO.
HAVING PURCHASED THE SALT
LAKE IRON WORKS, and
thereby the Tools and Machinery
belonging to WM. J. SILVER, are prepared to do
All kinds of
IRON and BRASS CASTING
FORGING, TURNING,
BORING and FITTING UP
WM. J. SILVER,
SUPERINTENDENT,
P. O. Box 46.

Half Block South of R. R. Depot
N. E.—Drawings, Plans and
Specifications of all kinds of
Mill-work and Machinery.

GILMER & SALISBURY'S
Stage Lines
MONTANA and SOUTH—East Nevada,
Oregon, Idaho, Utah, daily, leaving
North to Virginia City, Helena, Fort
Bellevue, Deer Lodge, and
passing through all the principal
and minor camps in Montana.

WILLS, FARGO & CO. BUILDING
SALT LAKE CITY.

THE EVENING NEWS.
Wednesday, May 5, 1875.
TOUGHENED GLASS.
SOME PARTICULARS OF THE RE-
CENT REMARKABLE DISCOVERY.

Although the manufacture of
glass has been carried on for about
2,000 years, it does not appear that
any attempts to overcome its in-
herent brittleness and liability to
fracture, and thus to preserve its
transparency, have ever been made,
which is doubtless the reason why
philosophers, Reamers, many years
since, hardened glass somewhat by
exposing it to a high tempera-
ture for a considerable time. But
this process, which is technically
termed devitrification, while it
hardens, at the same time crystal-
lizes the glass and renders it
opaque, the product being known
as Reamur's porcelain. Seven
years since, however, M. de la Bastie,
de la Bastie, a French engineer,
after long and patient investiga-
tion into the subject, discovered a
simple means of rendering glass
practically unbreakable, and at the
same time of preserving its trans-
parency. There were many delicate
conditions involved in the
process by which he obtained this
result, his success being achieved
much in the same way as was Pal-
ladi's, but on endeavoring to repeat
the successful experiment he failed
signally. For two years more M.
de la Bastie, who possesses ample
means, strove without avail to re-
discover the secret of his success.
At length, however, he succeeded in
so doing, and has since been en-
gaged in perfecting his invention
and developing a laboratory ex-
periment into practical working.
The process of conversion, in the
main, is a very simple one, so
simple that it seems singular it
was never thought of before.
Broadly stated it consists in heat-
ing the glass at a certain tempera-
ture and plunging it while hot in-
to a bath consisting of a heated
alkaline compound. The result is
however, many conditions in con-
nection with the details of the pro-
cess upon which a satisfactory re-
sult depends, and the neglect of
any, even in a slight degree, con-
stitutes the difference between suc-
cess and failure. Thus, the glass
must be perfectly heated and may
be susceptible to the effect of the
bath, or it may be overheated and
then it will lose its shape, or again,
it may be rightly heated and yet
be spoiled in the course of trans-
ference to the bath. Moreover, the
bath itself must be of a certain tem-
perature and their temperature have an im-
portant bearing upon the ultimate
result. These and numerous other
points of detail have all been satis-
factorily settled by M. de la Bastie,
who has designed furnaces and
baths by means of which his tough-
ening process can be carried out
practically without fear or mis-
chance. The time occupied in the
actual process of tempering is mere-
ly nominal, for directly the articles
are brought to the required tempera-
ture they are plunged into the bath
and instantly withdrawn. The cost
of tempering, too, is stated
to be very small.

We have observed that M. de la
Bastie went through a long course
of experimental research before he
attained success. He first worked
as an engineer naturally would,
upon mechanical principles. Know-
ing that the fragility of glass results
from the weakness of the cohesion
of its molecules, he not unreason-
ably expected that, by forcing these
molecules more closely together,
and thus rendering the mass more
compact, the strength and solidity
of the material would be increased.
But this doctrine, which holds good
with iron and steel, as Sir Joseph
Whitworth has practically demon-
strated, does not apply to glass—
compression failing to toughen it,
even if applied to it when in a fluid
or soft condition. By applying heat,
however, which is only force in
another form, the desired end is at-
tained, and the physical properties
of the material become altered in a
very remarkable manner. To this
singular fact we can testify, for the
inspection of a number of
toughened glass articles at the offices
of Messrs. Abel & Bro., 29
Minning Lane, the representatives
of M. de la Bastie in England. In
these articles, which consist of
watch-glasses, plates, dishes, and
sheet glass, both colored and plain,
neither transparency nor color is
affected at all, and the ring or
sound only slightly. These articles—
some of them being exceedingly
thin—were thrown indiscriminately
across a room against a
wall, and fell spinning on the
deal floor. Water was boiled in a
saucepan over a fire, and the sauce-
pan was quickly removed to a compar-
atively cold place, and was unaffected
by the sudden change of tem-
perature. One corner of a piece of
glass was held by the hand in a gas
flame until the corner became ex-
ceedingly hot, but the heat was not
communicated to the other portion
of the glass, neither was it emitted
from unequal expansion. A com-
parative experiment was then
made with a piece of ordinary plate
glass and a similar piece of tough-
ened glass, in order to show their
respective powers of resistance to
fracture from the force of impact by
a falling weight. In each case the
glass was about six inches square,
and was placed in a frame, the
weight being dropped upon its center.
With the ordinary glass, a two
ounce brass weight, falling on it
from a height of 12 and 18 inches
respectively did no damage, but at
12 inches the glass was broken into
several fragments. With a thinner
piece of toughened glass no impres-
sion was made by the same weight
falling from heights ranging from 2
to 10 feet, the weight simply re-
bounding from off the glass. An
eight ounce iron weight, tried at
two and four feet respectively, gave
similar results. Upon the tough-
ened glass, the weight being in-
creased to six feet, however, the
glass broke. But here another singular
result was produced. Instead of breaking
into about a dozen pieces, as did the
ordinary glass, it was literally smash-
ed to atoms. The largest frag-
ments measured about half an inch
in length and breadth, and these
were easily reduced by the fingers
to atoms varying in size from that
of a pin's point to that of a large
pin's head. The lines of fracture in
the fragments presented to the
eye the appearance of irregular lace
work, and these lines were, more-
over, apparent to the touch, but
more palpably on one side of the
glass than the other. Which of the
two sides was the one thus re-
ceived the first impact of the blow
we are not able to determine. An-
other peculiarity is that the edges
of the fracture are by no means so
sharp, and therefore capable of
causing incised wounds, as are those
of ordinary glass. It would seem
that the toughened glass possesses
enormous cohesive power, but that
if the equilibrium of the mass is
disturbed at any one point the dis-
turbance or disintegration instan-
taneously extends throughout the
piece, the atoms no longer possess-
ing the power of cohesion.

the practical nature of M. de la
Bastie's discovery there can be no
question whatever, nor can there
be any doubt of its value in the
arts, sciences and manufac-
tures. The applications which sug-
gest themselves are innumerable,
and above and beyond the useful-
ness of the process with regard to
articles of domestic use come im-
portant considerations affecting the

applied sciences, especially in con-
nection with chemical manufac-
tures and similar industries, where
a material alike uninfluenced by
the action of heat or acids has been
so long and so vainly sought for,
notably in connection with vitriol
chambers in the manufacture of
sulphuric acid, and for piping in
chemical works. For the present
there remains one purpose to which
toughened glass cannot be so easily
applied, and that is to window
glazing in odd sizes, inasmuch as it
cannot be cut by a diamond or
other ordinary means. Our glaziers
will therefore have a respite, but
we cannot give them much hope
that it will prove a long one, as ex-
periments of considerable promise
are being conducted with the view
of solving this problem. Moreover,
the glass can be cut to the proper
size before toughening if desirable.
The glass, however, is readily en-
graved either by fluoric acid in the
usual way, or by Mr. Tilghman's
elegant sand-blast process. It can
be easily polished, and it can also
be cut by the wheel, as for lustre
work and the like. It only remains
to congratulate M. de la Bastie on
the useful and valuable discovery
he has made, and to add that he
is now erecting works in France to
carry out in practice his ingenious
process.—London Times.

UTAH FORWARDING COMPY.
(Incorporated under the laws of the
Territory)
Under contract with R. E. Co. and
Fast Freight Lines.
WE WILL FORWARD GOODS TO ALL
points in Utah and Northern Nevada.
The handling, sampling and ship-
ping of ORE and BULLION a
specialty.
Rates of freight given and guar-
anteed to all points East and West.
From advances made on un-
shipped articles.
Office opposite U. C. R. R. Depot,
Salt Lake City.
GEO. Y. WALLACE, SUPR.

EVERY DESCRIPTION OF
PAPER JOB PRINTING
AT THE
DESERET NEWS OFFICE.
F. A. MITCHELL, DAVY JAMES,
Mitchell & James
REPROFITFULLY announce to the pub-
lic that they have
REMOVED
To their new premises on
West Temple Street,
Opposite the City Meat Market.

Where they hope, by strict attention to
business and small profits, to merit the
continued patronage so liberally bestowed
upon them.
Tin, Sheet Iron & Copper Smiths
Furnace Work and Roofing.
GALVANIZED IRON CORNER, GAS,
WATER and STEAM FITTERS.
WEST TEMPLE ST.,
Opposite City Meat Market.
d1874

NOTICE TO THE TRADE.
THE UNDERSIGNED NOTIFIES THE TRADE THAT
he has been exclusively engaged in the Hat, Cap, Boot and
Shoe business for the last twenty-five years, and he wishes to
call your attention to the fact, that in order to serve the trade
this season, he has made very large purchases in the above lines,
and will keep the stock full through the season. Any orders
that the trade may favor him with will have prompt and careful
attention, and at the very lowest prices. He hopes, by strict
attention in above specialties, and not interfering in his neigh-
bors' business, to merit a portion of the patronage of the trade.
Respectfully,
GEORGE DUNFORD.

NEW AMERICAN
Sewing Machine.
ESTEY ORGANS,
PIANOS,
AND
GENERAL MUSICAL MERCHANDISE.
DANES & SON.

ALWAYS ASK FOR
Steel Pens
FOR SALE BY ALL STATIONERS.
ESTERBROOKS & CO.
FALCON PEN.
Wm. Chandler, N. Y. ESTERBROOKS & CO. ESTERBROOKS & CO.

Appleton, Noyes, & Co.
525 Main St., and 110 Washington Ave.,
ST. LOUIS, MO.
WHOLESALE DEALERS IN
BOOTS & SHOES
Manufacturers of the celebrated
ST. LOUIS CUSTOM BOOTS:
EVERY PAIR WARRANTED.
d268 1y

PIANOS!
GOVERNOR AXTELL
Having appointed and commissioned me,
under the Power and Law, as
Notary Public for Salt Lake County, I will attend to all
business connected with the office at very
Reduced Prices.
Miners and business men will do well to
give me their patronage, as I propose to
charge small fees, so as to induce an in-
crease of custom.
Apply at Salt Lake Herald Office.
CHAS. W. STAYNER.
d112

GRAND!
SQUARE!
UPRIGHT
JUST RECEIVED! The
Finest Assortment of First-Class
PIANOS ever brought to this
country. For sale at Reasonable
Prices and on most easy
MONTHLY INSTALMENTS.
CALDER & CARELESS
BATHS!
WARM SPRING BATHS.
Private and Plunge.
THREE CELEBRATED BATHS ARE
open to the public at all seasons. Their
medicinal properties are so widely known
that it is needless to enumerate them.
Besides the Private Baths, the large and
handsomely furnished Plunge Baths,
for Ladies and Gentlemen, are now open.
d181 1y H. ARNOLD.

MERCHANTS'
PAPER COLLAR COMPY
124, North Main Street,
ST. LOUIS, MISSOURI
The largest and Most Extensive establish-
ment of the kind in the west. Have facili-
ties for filling the Largest Order at the
shortest notice, of the best and most desir-
able styles of Collars and Cuffs ever offered,
and at prices to defy competition.
Represented by
JOHN B. MAIBEN,
SALT LAKE CITY.

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IF YOU WANT
FURNITURE
CALL AT
J. M. JOELSON'S,
Groesbeck Block,
SECOND SOUTH ST.,
SALT LAKE CITY.
BELCHER'S
Sugar Refining Co.,
ST. LOUIS, MO.
Manufacturers of
Cut, Loaf, Crushed, Powdered and
Granulated
SUGAR!
White and Yellow Coffee Sugar, in
Barrels, Half Barrels and Bags.
Golden Syrup and Syrup Molasses,
In Barrels, Half Barrels and Kegs. All
of Superior Quality.
Our Goods are kept by J. C. M. I. and its
Branch Stores, also by all the Co-operative
Stores in the Territory.
1850 1874
THE

DESERET NEWS
BOOK AND JOB
OFFICE
OFFERS Superior Facilities for the execu-
tion of
BOOK AND JOB WORK
IN ALL ITS BRANCHES.
We have the LARGEST ASSORTMENT
of
Type
And Materials and carry the Heaviest
Stocks of
PAPER
Of any office in the Western Territories.
OUR
STEAM POWER
Gives us an advantage in Speed, Execution
and Price of Work.
BILL HEADS,
LETTER HEADS,
DRAFTS,
CHECKS,
CERTIFICATES,
ORDERS,
RECEIPTS,
DEEDS,
BALL TICKETS,
CIRCULARS,
BUSINESS
And all kinds of
Mercantile, Mining and Railroad

Blank Work
To Order, in
PLAIN, COLORED OR FANCY STYLES
POSTER WORK
A Specialty.
Mammoth Posters
AND
SHOW CARDS
In Plain or Colored Ink or Paper.
One, Two, or Three Sheets, execute
in the Best Style of Art and on the Shortest
Notice.

OUR BOOK AND PAMPHLET
Has also large facilities for the execution
of this branch of business.
Commercial Reports,
By-Laws,
Rules and Regulations,
Catalogs,
Price Lists,
Etc., Etc.

THE CHICAGO, ROCK ISLAND
PACIFIC RAILROAD
AND
PACIFIC & ATLANTIC
Via
Des Moines, Rock Island and
Chicago.
The only route carrying the through Over-
land Route, making close and reliable
connections at
Des Moines, Rock Island and Chicago.
With trains arriving from the West by
Central and Union Pacific Railroads, and at
Chicago, St. Louis, St. Paul, and
with all Fast Express Trains, West, North
and South.
We also elegantly furnished PAR-
LOR SLEEPING CARS over used on any
railroad are now built, owned and run by
the Company between
OMAHA AND CHICAGO.
THROUGH TICKETS to all points East
and West, including Chicago, St. Louis,
St. Paul, and Chicago, at special rates.
In case your tickets will read
Rock Island, St. Louis, St. Paul, and
Chicago.
A. M. SMITH,
General Passenger Agent, Chicago.
Chicago, St. Louis, St. Paul, and
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General Passenger Agent, Chicago.
Chicago, St. Louis, St. Paul, and
Chicago.

NOTICE OF DISSOLUTION.
THE PARTNERSHIP HERETOFORE
existing under the name of H. R.
MANN & CO. is this day dissolved by
mutual consent.
H. R. MANN,
HUGH ANDERSON.
Salt Lake City, January 12th, 1875.

I will continue the business of Insurance
in connection with Henry Wadsworth, un-
der the name of H. R. MANN & CO., office
Wells, Fargo & Co's building, Main Street,
d18
H. R. MANN.

UTAH SOUTHERN RAILROAD
On and after Feb. 25, 1875.
Going South.
Name of Station. No. 1. No. 2. Fare.
Train leave
Salt Lake City 7:00 A.M. 7:30 P.M.
Junction 7:45 8:15
Cottonwood 7:55 8:25
Arrive at
Sandy 7:55 8:25
Leaving
Sandy 8:30 9:00
Junction 8:45 9:15
Cottonwood 8:55 9:25
Arrive at
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