Globe Sliver Belt.

An improvement recently placed on the water jacket furnaces of The Old Dominion Copper Co. at Globe, consists of an arrangement for heating the blast before it enters the furuace, and as it has been so eminently successful in its work it will be here described in detail, first giving the construction, and afterward showing what effect it has had on the working of the furnaces and in what ways has it accomplished a saving in time and a reduction in running expenses,

The improvement is of the simplest kind, consisting of a wind jacket completely surrounding the crucible of the furnace, and being in connection with the blast supply pipe and also with the regular wind box. In operation the blast coming from the supply pipe enters the wind jacket in the usual cool condition, slightly higher than the surrounding atmosphere, and passes completely around the crucible. here coming in contact throughout its passage with the hottest portion of the furnace. After making the circuit of the crucible it flows into the regular wind box, thence to the tuyeres in the regular fashion.

In making this passage it serves sev-

eral purposes:

1st. It heats the blast to a high degree by taking up the heat which has formerly been lost to such a large extent by radiation, now taking it back into the furnace to perform useful work by reducing coke consumption.

2d. It keeps the crucible from getting abnormally hot, thereby saving wear and tear caused by great variations of temperature, and saving the time which was formerly lost in cooling it down when it got in this highly been divided into twenty-four-realheated condition.

3d. Making it very much cooler and more comfortable for those working in the vicinity of the furnace,

When one of these new wind jackets was first placed in operation a comparative test was run with a furnace precisely similar without the wind jacket, both being 42-inch furnaces of the ordinary type. The test was very successful and showed that the jacket effected a saving of five pounds of coke in every charge of 600 pounds of ore. In this furnace the temperature of the blast was raised fifty-five degrees, as just before entering and leaving the ble loss by its marauding. jacket.

Shortly afterward a wind jacket was furnace, and by slightly modifying the design it was made even more successful than the first, as in this case the temperature of the blast was raised 83.5 degrees in passing through the jacket, and the furnace is now running extensive beet sugar factory. with one pound less coke per charge than the first, or six pounds less with the jacket than without. As stated above there is increased economy by saving the time which was formerly lost cooling down the crucible whenever it became abnormally hot, thereby allowing more ore to be smelted at the same cost for labor and fixed charges:

The Old Dominion Copper Co. is now using two of these jackets, one of the ranche owners who irrigate from which has now been in two months, it. After the sale of the property it and, so well has it suited, one is going is presumed it will be run by the puron the third fornace.

This useful appliance is the invention of Messrs. Louis B. Walker and John Murphy of Globe, who have applied for letters patent.

The delegates to the statehood can- to settle their account; pretion worn right royally entertained at Fhœnix.

THANKSGIVING PROCLAMATION.

TO THE PEOPLE OF ARIZONA, GREET-

In accordance with the Proclamation of the President of the United States, and in keeping with established custom, I, Charles M Bruce, Acting Governor of the Territory of Arizona, do hereby designate and set apart Thursday, the Thirtieth day of the present month, as a day of

GENERAL THANKSGIVING

throughout the Territory. Joyfully recognizing the many blessings we possess as a Terrritory and as a Nation, it is appropriate that we set aside this day to offer up praise and thanksgiving to God for the merciful protection He has seen fit to grant us. and to invoke in a centrite spirit a continuance of His Divine favor.

Therefore let us see to it that we celebrate an occasion so replete with patriotic memories and joyous associaations, in a manner befitting its lofty character and our own humble sense of gratitude to the Supreme Will.

In Witness Whereof I have hereunto set my hand and caused the Great Seal of the Territory to be affixed.

Done at Phoenix, the Capital, this Hundred and Ninety-three CHAS. M. BRUCE,

Acting Governor. F. B. DEVEREAUX,

Acting Secretary of Arizona.

The purity of gold is estimated by an Abyssinian weight called a carat -Arabian quarat, a beanaffruit of the carob tree, says an authority-which is subdivided into four parts called grains. Thesterm carat when applied to gold and silver is not a weight unit, but that mode of expressing the parity or fineness of the metal in 24ths. Thus 18 carat gold is metal in which eighteen parts out of twenty-four (or three-fourths) are pure gold. This method of estimating fineness is traceable from the marc of Europe having carats or actual weight units. The present method is to estimate fineness in thousands, that is gold that has 250 parts alloy corresponds to 18 carat gold, three-fourths of the metal in each case being pure gold. American gold coins are 21.19 carats.-[Ores and Metals.

Monday of last week Mr. Sullivan of Willcox, took into town a huge wildcat he had captured. The varmint had been depopulating chicken roosts and committing other depredations below the town, and the neighborhood determined by many readings taken it had infested had suffered considera-

Manuel Vaca, representing Richard placed around the crucible of a second | Gird, the California millionaire, last week purchased at the Empire ranche in Pima county, 500 head of three and four-year-old steers, which will go to Chino, California, where they will be wintered on the pulp from Mr. Gird's

> One of the superintendents of the Carr & Haggin cattle interests has been inspecting the Barbacomari range in Cochise county, with a view to its purchase and stocking it with cattle. All the cattle now on the range will be shipped by the first of December.

> A temporary arrangement has been made by which the Yuma Pumping Irrigation Co.'s pump will be run by chasers.

> > Noticel

On and after October 1st all credit for goods will be refused except on good security. All owing are requested

A. GROVER. ARIZOLA, September 2, 1893,

Do You Need a New Chamber Suite?

We have them and can suit you in price and quality.

\$25.00 Solid Ash Suite. 3 pieces, 3 pieces, bevel glass, 30.00 3 pieces, 24x30 bevel glass, 32. do Great 35. Solid Oak suite, 3 pieces, do do Solid White Oak set, 3 pcs do do do 45. Cherry set, 3 pieces, 50. do do do Solid Oak set, 40x18 Chevel Dresser, 55.

And so on, up to \$100:00





We invite your trade. We carry a large sixth day of November, Eighteen and well assorted stock and our prices are as low as consistent with the quality of goods.

> Carpets at 25c, 50c, 75c, 80c, 90c and \$1.00 per yard.

> Brussels at \$1.00, \$1.25, \$1.35 and \$1.50 per yard.

> > L. ZECKENDORF & Co.

ARIZONA.

MISCELLANEOUS.

SANITARIUM-HOTEL.

Arizola, Arizuna: Now Open, Under the Management of Doctor William T. Barry.

The Ideal Spot of the Casa Grande Valley.

Altitude 1450 Feet.

Climate, Equable.

Air, Dry, Invigorating

Specially Recommended for Pulmonary, Throat and Nervous Affections.

Handsome, Two-Story Brick Building: Good Rooms and Table

Terms Reasonable

Hotel Dining Room Operated in Connection for the Trave ing Public. Corressondence Solicited.

Prenties Rectifying phis cure constipation Fronties Rectifying palls cure constipation. Prenties Rectifying pills cure constipation Prenties Rectifying pills cure constipation.

Almost all pills and medicine produce constipation, here is a pill that cures torp Hver, billouaness, rhoumatism, indigation, sick headache and kidney and liver troubles without griping or leaving any trace of CONSTIPATION, which is the prime cause of all sickness, bewar s of it getting habitual and chronic with you, see to it in time; these pills will cure you. Use PRENTISS RECTIFYING PILL, emedy that will surely BEAUTIFY the clear the skin and remove all blotches from the face. meif. 25 Cents a box. SOLD BY ALL DRUGGISTS, Or sent by mail upon receipt of price by Prentiss Chemical and Manufacturing Co., 406 CALIFORNIA STREET, SAN FRANCISCO, CAL.