

Horse in Mulberry Valley. Arrangements are making to place under contract from fifty to sixty miles of the road in Talladega, Benton, and Cherokee counties early this winter.

pleasure of celebrating the advent of the Iron

New Locomotives.

Messrs. Norris & Brother, of Philadelphia, have just completed for the Copiapo railroad, in Chill, three of their large class engines, which will be shipped to this city and thence to their destination as soon as possible. Each of the engines has four five feet drivers, and the cylinders are 13 inches in diameter, with 26 inch stroke. They are to run on the new road recently constructed under the superintendence of Mr. Allen Campbell, of Albany, from Coldaro to Copiapo, a distance of fiftyfive miles, to the copper mines of that country. The same enterprising gentlemen have now almost finished at their works, corner of Schuylkill Sixth and Fairview streets, two large engines for the New York and Erie Railroad. These mammoth "iron horses" are each built upon four wheels, 7 feet in diameter,

The Little Rock, Ark., Gazette announces ed spring, D, around it; this spring abuts analysis of the water supplied to his boilers, move to one end, one roller will be tilted up but states that previously to the use of sugar, the arrival at that place, from St. Louis, of against the table above and a fixed block befrom the rack, and the other let down on it, to Captain Joshua Barney's Surveying party, low, and supports the table altogether. The he was obliged to clean out the boilers every move in the other direction, so as to draw the cloth always down, inwardly, between the three weeks, although he was in the habit of who have been engaged for a year past, under metal bolts work down through guide openrollers. This is represented in figure 2. One putting in a large quantity of potatoes after the orders of the Government, in making an ings in the block below ; this allows the table roller, E, therefore, is moving on the rack, B | each cleaning. experimental survey of a railroad route from to be brought down below the rollers, so as to St. Louis via Fulton, on Kid river, to El Paso. take off the folded cloth ; this is done by press-(Continued on Fourth Page.) To Toughen New Earthen Ware. on the Rio Grande, and thence to the Pacific It is a bad plan to put new earthen ware sixteen feet in height. The six points of the American Artists in Rome. Ocean. The line marked by them deviates into boiling hot water ; it should first be plunstar are surmounted by six colossal statues-A correspondent of the London Anthenæum very slightly from a direct course. ged into cold water, and placed over a fire one of them an allegorical figure of Virginia, says the Americans seem to be the only people where it will heat moderately to the boiling Indiana Railroads. in Rome who are suffered to exhibit their the hero's birth place-three of them statues Indiana is fast becoming to the West what point, and then be permitted to cool again. of distinguished generals who were his compolitical, artistic and religious heresics with This process greatly promotes the toughness Massachusetts has been to the East-the railpanionsin arms-the other two representing impunity. Powers' emblamatic statue of the and durability of common earthen-ware, which road State. The enterprise of her citizens in statesmen who were connected with him in Republic of the United States is progressing, is generally objectionable for domestic uses on the construction of railroads is everywhere the great struggle and succeeded him in the and Mr. Crawford's design for a monument to account of its fragility. apparent. There are in the State nineteen railoffice of President. The casting, it is said, Washington is described by him as follows :roads, either completed or in progress, the At Suffiel, Mass., there are 30 cigar factowill be done in either Paris or Munich. All The design, for which \$100,000 is to be paid, aggregate length of which is 1,205 miles. There the figures except that of Virginia, are to be ries, at which 150 men are employed, who is original and striking. From the centre of are already completed 212 miles. done in bronze. The writer says the Ameri- make up 300,000 cigars per week. The "rea huge block of granite, cut into the form of a The citizens of Richmond Va., are about star with six rays, rises a pedestal, on which cans have just obtained permission to build a galias "made there are sold in New York for mbscribing \$100,000 to the Va. & Tenn. R. R. stands an equestrian statue of the Legislator, Protestant church-the first ever permitted in the genuine imported.

vention is the folding and measuring of cloth, by passing the cloth between two rollers, which may be used as callendering rollers; and giving these rollers a reciprocating motion from end to end of a table, a yard long, to fold the cloth on, thus folding and rolling it at one time, and for which improvements the inventor has taken measures to secure a patent.

Figure 1 is a side elevation; figure 2 is a ection of the rollers, the folding table, and the roller rack, and figure 3 is a plan view (looking down on the machine.) The same letters of reference indicate like parts. A strong table is made with legs, and a strong top, frame or sides, A A. B B are the racks, (one on each side, fastened on a bearer of the frame; C is the cloth-folding table; it is set between the two racks, B B, as represented in figure 3 -it is exactly a yard long. This table is upheld by five iron bolts, two at each end and one in the middle; this middle one has a coil-FIG. 2.



By this operation the table is at once drawn down, but when released of the foot it springs up of itself, by the recoil of the spring. The two large cog wheels seen below, in fig. 1, are the driving wheels. L is a crank on the axis of the second wheel; it is connected by common links to the connecting rod, Q, and this rod is linked to a crank, O, which has a shaft, M, extending across the frame. To this shaft is secured a crank, extending up, which appears like a continuation of O, resembling a beam, but it is separate, and on the other side there is a similar one exactly, which is indicated by N, fig: 3-in which figure both cranks are shown in their relative positions, and as connected to the reciprocating arms, P P; these arms play an important part : they support the frame, F, which sustains the folding rollers, E E. Two strong bolts, secured in the ends of the arms, P P, support two plates, in which the rollers, E E, have their bearings. As the arms, P P, therefore, are moved backwards and forwards, by the upper cranks on the shaft, M, it will be plainly seen that the folding rollers, E E, will have a reciprocating motion. On the ends of the rollers, E E, are cog-wheels, H H; these wheels are to run on the rack-road, B B, which is secured at the outside of the table, C; the object of this is, that when the rollers draw in the cloth, and

effected in from six to ten hours' time. If 1 part of phosphorus be placed in a porcelain capsule with 15 parts of an aqueous solution of caustic potash, two or three hours is sufficient to reduce the gold. If the temperature of this mixture be raised by bringing a lighted match in contact with it, so as to produce a disengagement of inflammable phosphuretted hydrogen, one minute will suffice to effect the reduction of the metal. The phosphuretted hydrogen gas should be collected in a wooden or paper recipient, of at least twenty times the capacity in volume of the object to which the solution of gold has to be applied.

To Prevent Fermentation in Cider, Wine, or Beer.

Add a small quantity of sulphite of lime; or bruise mustard seed, fourteen ounces to one ounce of cloves, and add to the liquid when first put into the cask, or a small portion of each may be added. The article is sulph-ite and not sulph-ate of lime. It is quite innocuous in any quantity.

To Prevent Incrustation in Boilers.

M. Guinon recommends the use of sugar and treacle for this purpose ; he has found the with cylinders 14 inches in diameter, and 32 addition of 12 lbs. of brown sugar, to keep a inch stroke. boiler 27 feet long by 3 feet in diameter clean for six months. M. Guinon does not give an Pacific Railroad.