

Charleston and Memphis Railroad. The Commissioners' Court of Lauderdale county, in Tennessee, has subscribed \$30,000 to the Charleston and Memphis Railroad, provided the road be located on the north side of the Tennessee river, in that county. Madison county has subscribed \$100,000, unconditionally, to the same enterprise, and the people of Marshall county, Mississippi, have voted, nearly unanimously, to contribute the same amount.

Utica and Susonehanna Railroad.

At a recent meeting at Utica, N. Y., of those favorable to the building of a road to run from that place and intersect the New York and Erie Railroad, a committee reported in favor of laying the route through the valley of the Unadilla and Susquehanna, cutting the New Yorkand Erie road at Deposit, as a terminus, with a branch from a point four miles north for the purpose of receiving coal. The road will be 84 miles long, and will cost \$1,680,000. A committee was appointed to draw up articles of association.

Georgia Railroad

The Macon Messenger says that the entire length of the Georgia Railroads now in operation, viz: the Central, Georgia, Macon and Western, and Western and Atlanric Roads and Athens Branch, is 642 miles. The extent of railroads completed and in progress is 956 miles. The roads already in operation are all prosperous, and are realizing from 8 to 16 per cent. clear profits per annum. Thus is demonstrated the wisdom and importance of a proper system of improvements. Georgia after expending nearly fourteen millions of dollars is now twice as rich as when she commenced her noble enterprise.

Liabilities of Railroad Companies.

The Supreme Court of Massachusetts, by a second decision, have laid down the principle that railroad companies are not liable for a person, not a passenger, injured or killed while carelessly upon the track. Upon this question of law the case will go before the whole Court.

not one.

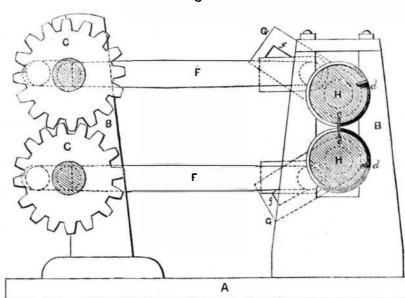
gen Iron Works, New Jersey, who has taken measures to secure a patent. Figure 1 is a plan view, and figure 2 is a

side elevation, with one side of the frame removed. The same letters refer to like parts. The two feeding rolls in this machine are

also the forming and cutting rolls. They are provided with grooves running round their peripheries to form the shanks, and they have also indents to form the heads with knives to cut them off. Each roller may have any num. ber of grooves, and these may be semi-round or consisting of the diagonal of a square, as the two in figure 1 is represented to be. Each roller has its groove made half the form, and the depth of the one in the roller above it, so that the two grooves coming together form the spike, bolt, or whatever it may be between them, by their united form and action. The

Machinery, by Mr. Thomas Rogers, of the Ber- uprights, forming the standing frame; C C are added in proportions, taking care never to have two ceg wheels with shafts, D; they have more in preparation than can be used in a their bearings in the uprights. These cogshort time; and this quick lime should be wheels gear into one another, and may be driven by any convenient power, steam or otherwise; E E are two cranks keyed on the shafts, D, of the cog-wheels-one on each. These cranks are placed one above another, and are attached to connecting rods, FF; these connecting rods are connected to a kind of crank levers, G G, into the shoulders of which the outer ends of the spike rollers are inserted. These levers have slots, f f, in them. The cranks, E E, the connecting rods, F F, and the crank levers, G G, are of equal length and placed one above the other; it will therefore be observed that, as the cog-wheels, C C, revolve, their cranks will only give a semi-rotative motion to the rolls, H H, by the slotted crank levers, G G. The feed rolls, H H, are two spike rolls do not revolve entirely, but made with grooves, b b, running around them. have a semi-rotary motion, moving forward to These grooves receive the iron bars for the form the spike and then back to receive ano- spikes. There is also an indent, d d, upon

Figure 2.



most completely beaten and incorporated with the soured lime, and it will be found to have effect of causing the old lime to set and bind in the most complete manner.-

It will become perfectly solid without the least evaporation to occasion cracks, which can only ensue in consequence of evaporation; and this can only happen from the want of proper union between the two bodies. But by mixing and beating the quick-lime with the soured mortar, immediately before it is applied to use, the component parts are brought so near to each other, that it is impossible either crack or flaw can take place. In short, beating has the effect of closing the interstices of the sand, and a small quantity of lime paste is effectual in fitting and holding the grains together, so as to form a plastic mass, by uniting the grains of sand which otherwise would not fit each other. This system will apply to the lime mortar for all descriptions of work, whether for building, plastering in the inside or outside of houses, water cisterns,

ground vaults, rough castings, &c.

Remedy for Burns.

Dr. Reese, late physician of Bellevue Hospital, New York, has been making experiments concerning the best mode of healing burns and scalds, and checking the acute suffering. He has found that flour, thrown on with a common dredging box, is one of the best and most efficient remedies yet discovered. The external air is one cause of suffering, and the flour thus applied, both heals and closes the wounds to the atmosphere. The edges of the wounds which remained open he dressed with lime and oil, applied by a feather. Dr. Beese says the above application made to wounds by fire, hot water, gunpowder, &c., has been most happy in the practice at the Hospital.

[We published the above once before in more extended form, and we do it once more, in a few words, to say that we have seen it tried with poor succes

Artesian Well

Mr. Welton, says the Charleston Mercury of each roll; this indent is to form the head of king long and short spikes, bolts, &c. The spikes the 1st, has gone to the depth of one thousand the spike. The end of the bar, for the point, may be pointed in any way most convenient. The connecting rods, F F, are secured to the feet and is now engaged in putting down his is fed in against a longitudinal ridge or divitubes to secure further operations. For nearly sion, e e, in the groove of each roller, and as cranf leves, G G, at distances from the centre of the rolls exceeding the throw of the cranks, this whole depth, with the exception of a few | it is rolled in and pressed in the grooves into thereby causing the rolls, H H, to draw in beoccasional boulders, he has cut through a bed the proper form, the indents, d d, meet togeof marl. We have not seen the chemical anatween their gooves the heated rods of metal ther and press the iron into them, as into a lysis, but such is the appearance. His latest sunk die, and the head is formed at the back against the metal butts or ridges, e e, as shown in fig. 2. The stopping plates for heading will borings show a considerable increase of sand, of the heading die; there is a metal knife runbe observed at d d. When no heads are reand the rise of water above the surface is a ning across the groove, which cuts off the bar, quired for spikes, the rolls do not require to very hopeful indication. and answers for a back to the header. When

have the heading indents in them; therefore, one spike is cut, the rollers move back and one set of rolls may be made with grooves, to another is fed in. The slots, f f, allow the

There are now sixty-five steamboats on the California waters. Three years ago there was stroke-to use a common expression-of the make more than one kind of spikes, and they rolls to be altered so as to answer for the ma- can easily be set to work on any section of the frequently to the vapor of oil of turpentine-

Yankes Clock Business. Mr. C. Jerome, of New Haven, Conn., manufactures upwards of five hundred clocks, of various patterns, every day, and the demand is equal to the supply. In the State of Connecticut, one thousand clocks are made daily. Within late years this Yankee clock business has wonderfully increased, and is very profitable. In England, Yankee clocks have superseded all others.

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