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RAIL-ROAD NEWS.

Breaking of Railroad Car Axles. A writer in the Journal of Commerce attributes the breaking of the axles of railroad cars to torsion, or twisting, occasioned in turning curves. The only effectual remedy for the evil is some method of securing an independent motion to opposite wheels, at the same time taking the strain off the axle .-This fact may afford a hint to the inventive genious of some of our mechanics .- |Exchange.

[The said writer might have saved his ink if he had been acquainted with his subject. The remedy proposed was patented and tried long ago, and instead of proving a remedy for safety, it increased the danger of running off the track.

New Locomotives.

Two large and powerful locomotives, with six feet eight inches driving-wheels, have recently been constructed at the locomotive works in Schenectady, for the Utica and Schenectady road, which are calculated to make the trip between that city and Utica in two hours, stopping twice. From the trial made they are found to equal expectations. The distance is not 80 miles.

Great Railroad Speed.

One of the engineers (James Baird) on Saturday week ran his locomotive, "The Tempest," on the Harlem Railroad, 103 miles in two hours and ten minutes, including three stops to take in wood and water. This was pretty quick running. The engine was built at the establishment of Rodgers, Ketchum & Grosvenor, Paterson, N. J.

A Great Locomotive Feat.

The Baltimore and Chio Railroad company are now working a locomotive up a grade of 520 feet to the mile. This grade occurs at the great tunnel, where a temporary track has been laid over the mountain, for the purpose of transporting material for the road beyond, in advance of opening that work. The locomotive used weighs 24 tons, and the ordinary load attached to it, in addition to its own weight, is 12 tons. This grade has thus The whole power obtained is in the ordinary

ving when past the cutters, by a self-stopping, the chisels with quick short blows, saves the owned by E. Chadsey & Co., of Troy, N. Y., Explosion of a Mountain. By the late news from Europe, an account and then it has a reverse motion. D D are the face of the stone, economizes the power of the or 62 William st., New York, assignees of Wm. is given of a singular catastrophe which had Eayrs, and more information about rights, &c., chisels; they are hung on an axis. In figure machine, and enables the cutters to work the engulphed a chapel on a mountain in Siberia. may be obtained by letter addressed to them. 2, A is the axis, B the shank, C the cutter hardest stones, granite, &c., with an ease and Towards midday (date not stated) a report, as chisel; it is shaped almost like a boot; the a beauty of finish that is scarcely possible to Vapor Baths Applied to Cattle. ot thunder, was heard, and the summit of edge of the chisel is like a stone cutter's believe without seeing the machine in opera-A letter from Vienna states that for the last the mountain became suddenly enveloped in broad hand chisel, and its action is the same tion. The angle of the cutters is changed by two years an epidemic disease has decimated smoke. On the smoke clearing away it apas that by hand on the stone. Each set of the endless screws, which are turned by the the horned cattle, and brought ruin to the peared that the chapel had been engulphed. cutters are hung on one axis across the trame, heads, E E, and the screws move the wheels, breeders; that the veterinery art was power-No further particulars given. and each chisel is separate, and gets a separate E' E', on the spindles of which are other small less to arrest the malady; but a Dr. Godslight blow on the back by the cam, D, on the pinions, F, (there is one on each end, inside lewske, a native of Gallacia, has recently Our Silver Currency. A Bill is now before the Senate for the inshaft, E, fig. 2. The shape of the said cam is the supports, but only one is seen) which mesh claimed two premiums of 75,000f. each, ofsuch that it gives the chisel three blows in into sector cog plates, which are the bearing fered by the Austrian and Russian Governcrease of the value of our silver coin relativeone revolution. The cam is alike for both sets plates of the axles (A, fig. 2) of the chisel ments, he having, it is said, discovered an inly to gold. It is supposed that it will pass of cutters; it is a revolving roller, and is made cutters. As the sector plates are turned, so is valuable remedy in the application of vapor the House of Representatives almost unaniwith three projections for each cutter chisel, the angle of the chisels changed. The chisel baths. mously, if it can get there.

liam Eayrs, of Concord, N. H., and patented on the 4th Dec., 1849.

Fig. 2.

Figure 1 is a perspective view, and figure 2 is a side view of one of the chisels or cutters, and the cam which gives it a reciprocating chipping motion. A is the bed of the frame; it is made strong, and supported in the most suitable manner for the location where the machine is set up to work. B B are strong arched supports for the machinery. There are two sets of cutter chisels in the frame; they are operated exactly alike; the one set are placed behind the others, and are larger than the front set. The front set do the hard rough work, the hind set finish the stone with a beautitul surface. The bearings which support the cutters are sliding frames fitted snugly on each side between the two front and back arch supports, B. C is the bed on which the block of stone, granite, or marble is secured. It slides along and is fed forward to the cutters by rack and pinion gearing, $a \ b \ c \ d$, cams for the purpose stated. and this gives both the forward and reversing

the Stone Dressing Machine invented by Wil- and this makes the machine work easy. The standards, B B. The pulley, N.P. and belt, O, cutters are set so as to take only a small chip are for giving motion to the cutters. By opeat each blow of the cam, but to take the blows rating the cam roller shafts (E, fig. 2), which very rapid; this saves the stone from splintering, and the cutters thus work better on hard stones or granite. The two side chisels are made to form sharpe fine edges, without flaws, on the sides of the stone. The axle or shaft on which the chisels are hung is fixed, but the cam shaft revolves. Both the chisels and cam frame can be elevated to any point for stones of any size. This is done by the screws, H H, for each cutter frame; these chisels (C, fig. 2) at the point are small, and screws are sunk in sockets, G, secured on braces extending across and secured by bolts on the cut; but the cutters can thus easily be tathe cutter frames. L L' are crank handles, which turn spindles, on the inner ends of which are bevel pinions, K, (one behind, not are obvious; it dresses a true face on any kind seen) ; these pinions mesh into pinions, I (one of stone, withoutsplintering or fracturing the not seen), which are nuts for the screws, H H, surface. Its action is like a number of stone and which, when moved in one direction, turn the said screws so as to raise the cutters and

The chisel cutters can also be set at differsplir tering, and at the same time to make a motion to the stone. This motion is for work- ent angles, to cut more vertical or slanting, as most beautiful surface. It can dress the side ing by hand for the attendant, and shows the may be required for stones of different hardof the stone, however narrow, as well as a far been worked with regularity and safety. action; but, in a large machine, on the other ness and of different natures. This is an imbroad stone, and this is a great advantage. One side from the attendant, the forward and re- portant point of advantage, as some stones are verse motion is given by devices like those of very fractious, splintery, and hard to work; of these machines can be seen in operation at adhesion of the driving-wheels. iron planing machines; the stone stops mo- this arrangement, and the manner of striking 138 Bank st., this city. This Stone Machine is

The accompanying engravings are views of 1 so that all the cutters are not struck at once, 1 and cam frames slide up and down between the are placed behind the cutters, the cams strike downwards on the back of the chisels, as shown in fig. 2, and the action is like a great number of mallets acting alternately over the whole face of the stone, as easily on the stone as the hand chisel, and more accurately, and the amount of work which the machine is capable of performing, can only be limited by the power of the applied force. The cutting are secured by nuts; this is not shown in ken out and sharpened as cheaply and fast as hand chisels. The advantages of this machine cutters, one set taking off the rough, and another behind finishing—all of them going over the stone at a tremendous pace, and acting on its surface in the best way to save it from