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RAIL-ROAD NEWS.

Railway Curves, Axles, &c. A correspondent of the Journal of Commerce has been discussing the question of railway accidents and their remedies. He has given to the world some excellent and judicious remarks on the subject. He points out the following evils of our railway system :-

First. Elevating the outer rail instead of the inner one, upon the curved portions of the railways.

Second. Large driving wheels, which require much coning, to go round the curves, and therefore exert an injurious lateral pressure upon the rails.

Third. Coupling the wheels, whereby the flanges are liable to abrade the rails, as each axle is prevented from assuming its natural position of normal to the curve.

Fourth. Two engines, tugging first on one side and then on the other, like a man sculling instead of rowing in a boat, whereby the rocking motion is greatly increased; and if it operates simultaneously with that produced by the cross winding of the axles, is almost certain at least to throw the locomotive off the rails.

All these causes tend materially to produce those accidents which usually take place upon the curves; but the greatest evil is the want of proper attention to the maintenance of the permanent way, more particularly upon the curves, and were these properly attended to, comparatively few accidents would happen upon them, more than on the straight parts of the line; but that affords no just reason for neglecting the other evils complained of. But still, the great desideratum is the perfection of the permanent way.

Talk of a director walking over a railway build an independent line of railroad from Lockport to Buffalo, connecting at Lockport to examine it! why, he may as well send a carrier pigeon over it. Take a level, Mr. Diwith the Rochester, Lockport, and Niagara rector, and try round the curves, and examine Falls Railroad. It is contemplated to conthe charts and then "mend your ways," struct that part of line between Lockport and "mend your ways," for they are sure to re-Tonawanda this summer, so that in connecquire it; it is a simple mathematical proposition with the Buffalo and Niagara Falls Rail-tion, but worked out with a pickaxe, in the road, a railway communication will be openopen air, away from the quiet, snug and comed during the fall and winte between Buffalo fortable office of the directory, and the engiand Lockport, having the residue of the line neer. The word of an ignoramus is generally completed by the spring of 1853. taken that it's "all right," but let any man who has any common sense take a level, and **Commercial Navy of Great Britain.** put it across the rails, and he will no longer The commercial steam-navy of Great Bribe in doubt as to the cause of many of the ac-Q, is for the purpose of relieving the lever, M, per end of this wire has a thread turned on it, tain, available for the national defence in the from the spring catch, when the wheel, I, is and it passes through a cross bar over the cidents which occur time of need, amounted, on the first of Januto be lowered. The raising and lowering of mouth of the hopper; a nut works on the ary last, to twelve hundred and eighteen ves-Unparallelled Speed. the wheel frame, to suspend or put in opera- thread of the wire, therefore the basket can sels: and it is stated upon authentic informa-They are making time on the Hudson Rition the planting devices, can be done in a sin- be raised or lowered by turning the said nut, tion, that there were at least one hundred ver Railroad now, that beats the speed on gle moment. The opening or openings made and the valve on the exit end of the hopper steamers in advanced states of construction. any of the English railways. The 6 o'clock or completed since the beginning of the year, and not included in the official feturn. The train out of New York, Saturday morning, in the seed roller, for the reception of seed, are can thus be opened to any extent desired, or such as to deposit the seeds at any required it can as easily be entirely closed. The gothe 15th inst., made the distance in three distance apart. The hopper, B, for the ferti- verning of the actions of the seed planting vessels constituting this great steam-navy hours and one minute. The following is the lizing material, which is placed behind the and fertilizing devices, are thus very easily vary in size from two hundred tons burthen running time ;-From 31st street, New York, seed box, has a wire basket in it, which acts accomplished. The valve for the poudrette to Peekskill, 50 minutes; to Fishkill 23 to three thousand. The steamers of four minutes; to Poughkeepsie, 20 minutes; to as a spring and regulator to govern the supply hopper is also actuated by pins placed in the companies now employed in the ocean mail contract service, and warlike operations, comof fertilizing compound to the seed. The botend of the seed roller, so as to operate a lever Rhinebeck, 20 minutes: to Hudson, 32 mitom of this hopper has a value on the mouth and make the value open to drop the fertiliprised seventy vessels, amounting in the agnutes; to Albany, 36 minutes; total 181 migregate of tonnage to 93,431 tons, with 32,500 nutes. This is equal to about 50 miles an of the shute, E, and it is secured to the lower zing material upon the seed, at such times and end of the wire forming the basket; the up- $^{\downarrow}$ distances as the seeds are deposited in the engines horse-power. hour.

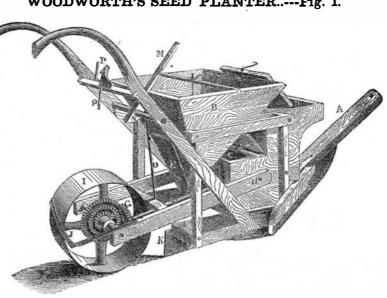
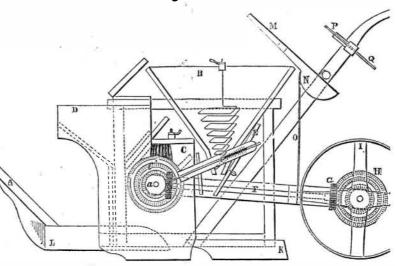


Figure 1 is a perspective view, and figure 2 | bevel cogs on its hub, H; J is a scraper to is a vertical section of the Patent Seed Plant- clean the wheel; G is a pinion on a shaft, F; er of Joshua Woodworth, of Mittineague, this shaft has a pinion $(\hat{b}, \text{ fig. 2})$ on its for-West Springfield, Mass. The foundation is a ward end, which gears into cog gearing on the smoothing or surface board, with a plow or shaft, a, which is the shaft of the seed roller. channeller, L, for opening the ground for the When the wheel, I, revolves, it gives motion reception of seed ; the coverer, K, is attached to the seed roller. This wheel, I, is made to to the under side behind. A is the pole for be raised up at pleasure, so as to stop planting drawing the planter; B is a hopper to contain at any moment deemed necessary, while the ashes, plaster, lime, or poudrette, for the kind apparatus is being drawn. The said wheel, of seed which may be planting; D is a box with the shaft, F, and its gearing, are secured for containing the seed; at the back end of in a swinging frame of which, a, is the axis this box there is a broad roller (c fig. 2) which | To a brace of this frame is secured a strap or revolves tight with its face passing through cord, O, which passes over a cam, N, and is the back end of said box. No seed can pass secured on the lower end of lever M, which works on an axial shaft secured between the out of this box, unless the roller takes it up. two stilts of arms of the planter. By taking For this purpose, one or more recesses are made in the face of the roller, the seed passes hold of the lever, M, and bringing it downinto these as the roller revolves, and is carried wards towards the back end of the planter, over under a brush in the chamber, C, and the wheel, I, is raised from the ground, and then the seed drops out when the recess of the the seed planting operation is stopped. The roller gets to the under side. This seed roller lever, M, is retained in its place, suspending receives motion by a train of gear from be- the wheel frame by a spring catch, P, which hind; I is a broad-faced wheel, which has acts as jaws to embrace the lever. The arm,

Figure 2.



furrows. The ground undergoes four processes of pulverization in the operation of planting: first, there is a smoothing board in the front end of the planter; second, the action of the plow; third, the covering operation, and then, after this, the broad-faced wheel, I, crushes all the clods, and packs the seeds with just that amount of pressure required. This apparatus can plant eight acres per day, in the most perfect manner, with the ordinary labor of one man and a horse. Two planters can be fixed so as to be drawn by one horse, for the apparatus is quite light. It can do the work better than planting with the hoe, and two horses with tour planters attached togetherwhich might be done when the weather demanded prompt action-will plant thirty-two acres in one day.

Mr. Woodward has made application for a patent for his improvements, and he warrants his machine to work to the satisfaction of any reasonable man. More information may be obtained by letter addressed to him at his place of residence.

The Art of Growing Trees from Cuttings.

Professor Delacroix, of Besancon, in France, has discovered a mode of propagating from cuttings, which is not only successful in case of roses and other plants easy to live, but apples, pears, plums, apricots, &c. Dut of an hundred cuttings put out in June, not one but was thriving in August in the open air, without shade or extra care, except watering a few times soon after they were planted. His method is to put the whole cutting in the ground, bent in the form of a bow, with the centre part up, and just on a level with the surface, at which point there must be a good bud or shoot, which is the only part exposed to the air; the other being protected by the earth from drying up supports and gives vigor to the bud, which starts directly into leaf, and in its turn helps the cutting to form roots and the whole even forms a thriving tree. The method of setting them is to form two drills about three inches apart, with a sharp ridge between, over which bend the cutting, and stick an end in each drill, and cover up and press the earth firmly, and water freely. Cuttings should be of the last years growth fresh and vigorous.

Buffalo and Lockport Railroad.

The Lockport Courier states that the Buffalo and Lockport Railroad Company has been organized, and that it has been resolved to

WOODWORTH'S SEED PLANTER..---Fig. 1.