a WeEkly Journal of practical information, art, Science, mechinics, Chemistry, and manufactures.

NEW YORK, JANUARY 16, 1875.
[83.20 per Annuma

## PATENT CHARIOT STREET CAR.

a central ofiice. In the latter, at certain hours of the day Else some other kind, and so on. The subscriber then watch The novel vehicle represented in the engravings given and night, celebrated performers might be engaged to tshis clock, and at the specified hour turns a switch on his herewith is designed as a substitute, in city streets, for both play, one, for example, executing classical, another sacred, wall, which places his instrument in connection with either omnibuses and horse cars. Like the former, it requires no another operatic, and a fourth dancing music, on as many Monsieur's or the Signor's piano. 'Then all he has to dois to tracks, nor the acquisition of a right of way, andin conl separate pianos. These last could all be connected with any listen until he gets tired, when, without apologizing to the mon with the latter it has easy motion and superior
facilities of accommodation. 'The form is hand someand symmetrical. The front part of the body in the swell forms a kind of oblong octagon, while the bottom is of equal width along the entire length, excepting a rounding at the hind end, forming a recess, so that the hind wheels do not project outward beyond the front part of the vehi cle. The whole body is mounted on a combination of springs.
The tront axletree is short, so that the car can be started more easily than the ordinary omnibus, also turned around in its own length, and guided more accurately, so as to avoid irregularities in the roadway. 'Two doors are provided, placed obliquely at the rear. Access is obtained by a low step, so that, when the vehicle is driven close to the edge of a sidewalk, a lady or infimn person may step therefrom dipectly into the car. 'The arrangement of the interior resembles that of horse cars; the hight of the roof is sufficient to allow a per son to stand erect with comfort, and the usual straps for support while in this position are provided.

is supplied, by which light is afforded in advance of the chariot as well as within the same. The weight of the entire rehicle is about the same as that of an ordinary omnibus, and the cost of manufacture, we are informed, is no higher.

We learn that a car will probably be brought to this city, when those interested will be given opportunities for its examination.

For further particulars, address the paten tee and proprietor, Mr. (hauncey M. Murch No. 278 WV . Sixth street, Cincinnati, Ohio.

## Electro Muslc.

A correspondent, Dr. G. P. Hachenberg calls our attention to his plan for playing one or more pianos by electricity, and suggests among other remarks, that instruments thus arranged might prove an interesting feature in the coming Centennial Exhibition. Dr llachenberg says: "The electrical union o ten pianos is a very simple arrangement, bu is controlled with singular effect to render colume and expression. One instrumen serves to play upon, and the rest are connect ed with it by electro magnetic attachments, so that the pressure " of a certain key on the $\mathrm{k} \cdot \mathrm{g}$ piano determines the striking of nine other like keys on the rest of the instruments. 'Tlue pedals are governed by similar arrange ments, and there is an apparatus whereby the music may be played upon as many or as few of the ten pianos as desired.
'The invention is not unpractical; and in fact, a similar contrivance is in use upon the two organs of St. 'Thomas' church, in this city, whare the tower bells arc also chimed in connection with the organs, by electricity It suggests possibilities of future musical performances quite interesting. There is no reason, for example, why pianos, minus key boards, should not be provided in houses and their works connected with the key boards of three or four instruments, say in

MURCH'S PATENT CHARIOT STREET CAR.
number of piano movements all over a rity, so that the playing of one instrument in the central hureau would, oi course, be repeated on every other piano, no matter how many or how widely separated, und the effert would he exactly as if the performer were individally in the parlor of every sab scriber. The latter might be provided with a printed daily programme, specifyingr that at snch and snch an hour Signor So and So would jlay certain musie; Monsienr Somebody
 the twin vein to the Mam the singul, feet. The discrepancy is accounted for by the test drill. The Big Tracy vein basin is found to be 176 cet deeper than expected. And the Orchard vein is so curiously formed that it was cut three times, the distance from its first appearance to the last being 250 feet. The strata overlaps or closely folds in a very remarkable way. T'aking these two entirely unexpected and unforeseen distances out of the account, the calculation would have held correct.
'The Seven Foot vein, which is the upper member of the Mammoth, was found to be thirteen and one half feet thick, and of excellent coal. Underneath this vein there are seven feet of slate, three and one half feet of good coal, four feet of slate, two feet of good coal, sixteen feet of slate containing iron ore balls, and six inches of carbonaceous iron ore, or black band. Then comes the Mammoth rein, twonty-one feet thick, next one and one half feet of partition slate, and under this it is thought there is a nine foot vein of coal. Below this, it is believed, comes the solid rock.
Besides the red ash veins, which will be worked, there are the following white and gray ash coals: Primrose, fourteen feet deep; Seven Foot vein, seven and one half feet deep, and the Mammoth, twenty-one feet deep, making a total depth of forty-eight and one half feet of coal.

The importance to Pottsville of the success of this great and plucky undertaking by the Reading Company cannot be overestimated. It makes Pottsville the great mining city of the future. For years and years to come, in all reasonable probability, hundreds, perhaps thousands, of men will be at work here, taking the black diamonds from this inexhaustible :supply. It takes no great stretch of the imasination, says our contemporary, to see in operation here the largest and finest colliery it the world.

