Wire Rope Transportation at the Reading Iron Works.

'The Iron Age describes a system of wire rope transportation at the Reading Iron Works, which is expected to do away with much expensive handling and carting, and will offer a good example of a system which is rapidly gain- his business had assumed such proportions as to render land, after draining, is tilled with the slightest labor. Onion ing ground in Europe, and has been repeatedly used with success both in Eastern and Western States, although not to that large extent which its advantages warrant. At the Reading Works there will be three lines of transportation, the first of which will be 1,000 feet in length. It will be used exclusively for conveying pipes manufactured in the establishment to a siding along the Reading Railroad, 90 feet in length, where the pipes will be loaded upon cars. The second line will be 800 feet in length, and will be used for the transportation of anthracite coal, while the third line will be 300 feet in length, and will carry soft coal and pea coal to the rolling mill. The trestles vary from 20 to 45 feet in height. The first line is supplied with two terminal and eight intermediate trestles, the second line with two terminal and four intermediate trestles, and the third line with two terminal and one intermediate trestle.

The main line will be equipped with an endless steel rope, 1¼ inches in diameter, which will run over sheaves or large wheels located upon the trestles, the rope fitting firmly into grooves in the circumference of each wheel. Grooved trucks will be fastened upon the chain, from which will be suspended hangers to support whatever articles may be transported. As this line will be used for carrying pipes almost exclusively, two trucks will be arranged in such a manner as to carry the pipes suspended upon the hangers. When the trucks reach the railroad siding they will be run from the endless rope upon the siding by an ingenious contrivance. From the center of the track to the center of the wheel the gauge is the same as from the center of the rope to the center of the wheel. Upon the truck reaching the siding, the rope shoots at an angle, and the truck is run upon the railroad tracks with its freight. The moment the wheel strikes the rail, the rope slips down and leaves the truck standing upon the rail. The truck is then disengaged from the rope and unloaded. While one line of loaded trucks is being conveyed from the pipe mill to the siding, a line of empty ones is being returned.

The operations of the other lines for carrying coal from the railroad sidings and dumping places to the pipe and rolling mills are of a similar character. The large sheaves, or wheels, are 8 feet in diameter, and the small sheaves are 2 and 3 feet in diameter. The coal will be carried in buckets suspended from trucks fastened to chains. The power used in operating the endless ropes will be transmitted from a stationary engine by the line of shafting in the flue-cutting department of the pipe mill.

40 Poison for Rats and Mice.

Carbonate of baryta has been found to be a most efficient poison for rats and similar vermin. Indeed, at a special series of trials by the Zootechnical Institute, in connection with the Royal Agricultural College, at Proskaw, this substance was found to be more efficacious than any other. It occurs as a heavy white powder, devoid of taste or smell. In the Proskaw experiments it was mixed with four times its weight of barley meal, and pellets of the paste were introduced into the holes of the rats, house mice, and field mice. A small quantity proves fatal. It appears to cause immediate and complete paralysis of the hind extremities, so that it may be assumed that mice eating of it in their holes will die within them, and so not prove destructive in their turn to domesticated animals that might otherwise devour the carcasses. It was found in practice that neither fowls nor pigeons would touch the paste, either in its soft state or when hardened by the sun; so that its employment is probably free from danger to the occupants of the poultry yards. Some rabbits, on the other hand, that got access to the paste ate heartily of it and paid the penalty with their lives. Next to the carbonate of baryta paste the ordinary phosphorus paste proved most destructive, and this, it was found by experiment, is more attractive to the mice in a soft form than when hardened into pills. But it is considerably dearer than the baryta preparation, an important factor in the calculations of the farmer who has to wage war against rodents on an extensive scale.

Albert Weber.

Albert Weber, the piano manufacturer, died on the morn-

and Crosby streets. About this date he began to be known to the musicians of this city; teachers and players flocked to years he was well known in professional circles, and in 1869 another step up town both expedient and necessary. In that year, therefore, he moved to the extensive warerooms on Fifth avenue, which have since been occupied by the firm. Here his business reached splendid proportions.

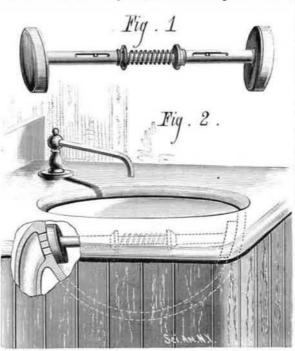
While he was in Broome street he built, in 1868, the manufactory in Seventh avenue, which, in 1876, was en-204 feet on the avenue. About 400 men are regularly employed, and the yearly product is now between 1,800 and 2,000 instruments. Mr. Weber gave his personal supervision to the manufacture of 14,500 pianos.

About a year ago Mr. Weber was forced by declining health to transfer the management of the business almost entirely to his son, Albert Weber, who had been educated in all its departments, and who now inherits it.

NEW SEWER GAS STOPPER.

The accompanying engraving represents a simple and apparently efficient device for preventing the entrance of sewer Its construction will be, understood by referring to Fig. 1, and the manner of applying it is shown in Fig. 2.

The stopper consists of two longitudinally slotted tubes, each provided with a curved elliptical cap carrying an clastic pad. Each tube is provided with a flange at its inner



WEMPLE'S SEWER GAS STOPPER.

end, and both are placed on the rod carrying the spiral spring that forces the two tubes apart. The stopper is applied to the basin by pressing the two tubes toward each other, placing one pad over the overflow holes, and then allowing the device to expand by the pressure of the spring. These stoppers are made of different lengths to suit basins of various sizes.

Further information may be obtained from the inventor, Mr. Christopher Y. Wemple, Nos. 2 to 10 Worth street, New York city.

A Great Swamp Reclaimed.

A correspondent of the Times, writing from Goshen, N. Y., tells how 500 acres of pestilential marsh east of that village have been converted into the richest of farm land through the wisdom of one man. The reclaimed swamp is crossed by the Erie Railway, and was one of the most serious obstacles encountered by its engineers. To construct a foundation for the road bed it was necessary to drive a multitude of piles to the depth of 100 feet, and cover them with hundreds of thousands of loads of stone and dirt: the building other five miles of the road from Jersey City to Piermont.

a portion of the tract and making it tillable soil. By ditch- gress, Privy Councilor Dr. Gerhardt, of Würzburg, suging of June 25th, at his residence in this city, after a linger- ing, he reclaimed 60 acres. The first acre he bought cost him \$1. When it was found that the draining left as a soil land. The ruling price is \$500 an acre. The great value of the land is owing to its extraordinary adaptability to the culture of onions. A crop of 800 bushels of onions to the acre shadow of his former self. is not uncommon, and the Greycourt onion meadows are celebrated throughout the country. About 300 acres are

he moved to more extensive premises at the corner of Broome | the farmer is allowed abundant time to keep his land in the condition necessary to its productiveness

There are 17,000 acres of swamp land in the Wallkill Valhis store, and his pianos came rapidly into favor. In a few ley, which will eventually be converted into this muck soil, which is the best in the world for vegetable raising. The seed is sown by a hand drill, and the greatest labor is in keeping down the weeds after the plant begins to grow. This work is done by boys and girls. Hundreds of these may be seen in the growing season on their hands and knees between the onion rows, pulling up the weeds that the rich soil calls rapidly into existence. The weeding requires skill larged to a frontage of 262 feet on Seventeenth street, and of and care, as the soil is so loose that there is constant danger of tearing up the young and tender plants by their roots, or removing their covering of earth. The red onion is the variety grown most successfully, as the dark muck gives the white onion a dirty hue, which injures its marketable value. When the onion tops are at the height of their growth, their odor fills the air for great distances around.

----An Inscribed Cavern in Wisconsin.

The Chronicle, of La Crosse, Wis., of June 15, prints half a dozen rude engravings, said to be exact tracings (reduced) of some of the pictures on the walls of a small cavern recently discovered in Barre township, some miles gas into a house through the overflow pipe of a washbasin. from La Crosse. The cave is described as thirty feet long by thirteen wide, and at its largest dimensions about eight feet high above the sand, which is from three to six feet deep. Upon the walls are very rude carvings representing men, animals, arms, implements, and something that appears to be hieroglyphics. One picture represents a man with bow and arrow, shooting at an animal. There are three buffaloes and one rabbit represented; three animals which, if large, must have been hippopotami; one that appears to represent the mastodon, and one moose, quite plainly delineated. There are eight representations of what arc either canoes, much carved, or, which they more resemble, hammocks. One sketch of a man is quite plain. He wears a kind of chaplet, or crown, and was probably chief of his tribe or clan. There are many fragments of pictures where the rock has decomposed. It is coarse, soft, white sandstone. On one side there is a space about two feet high and two and one half feet into the wall, that has in time decomposed and fallen out. Above are the upper fragments of pictures and below the lower, showing that they were made when the rock was entire. From the depth to which the decomposition had reached in a dry and dark cavern, they must have been quite ancient.

These carvings, as copied by the Chronicle, are such as are commonly made by savages the world over. The alleged mastodon looks more like a hog, while the hippopotamus might be any square muzzled animal. The Chronicle says: "Every one who has visited the spot so far has come away convinced that the cave far ante-dates anything short of the ancient cave dwellers, and it needs only a sight of the interior of the room to convince the most hardened skeptic that there is no possibility of humbug." Among the visitors named are Dr. H. G. Miller, who, it is said, has made careful studies of the remains of the mound builders; and Hon. Hugh Cameron, who is described as a well informed geologist. The latter pronounced the discovery as a very important one. This, we take it, will depend entirely on the correctness of the conjecture that some of the animals represented are the prehistoric creatures named.

.... New Diseases.

Professor Winckel, the Director of the Royal Lying-in Institution at Dresden, has reported to the Congress of Children's Doctors, lately held in Berlin, observations upon a mysterious children's disease, which he had an opportunity of clinically studying in his own institution. An epidemic broke out toward the end of March. Of 23 children attacked, 19, or 82 per cent, died, and the average duration of illness in the fatal cases was 32 hours. The illness began with a sort of sudden stupefaction of the children. The respiration became hoarse, accompanied with groaning and occasional foaming at the mouth. The change in the blood was remarkable. Dr. Winckel made incisions in some cases, but it was only by using pressure that he was able to squeeze out any blood. It was a thick, brown-black fluid, of the of one mile of road across the swamp costing more than any consistency of a sirup. The body became flaccid, the liver much swollen; presently convulsions supervened, during Twenty years ago a farmer conceived the idea of draining one of which the child expired. The President of the Congested that this new disorder should be designated "Winckel's disease." Another disease has become apparent in the heart of a very crowded portion of London. It is a new form of Cyprus fever, and a diagnosis of a recent malignant case shows the patient to be suffering from hallucinations and lowered vitality. The faculty ascribe the disease to impure water, and have given it the name of detephobia. and, though it is seldom fatal, the sufferer remains but a

ing illness. Mr. Weber was born in Heiligenstadt, Bavaria, in 1829, and came to this country a youth of sixteen. It the finest of black muck, composed almost entirely of vegewas his intention to make a living by teaching the piano or table mould, the price advanced to \$17 an acre. After the 60 by obtaining a position as an organist, but his sagacity soon acres were reclaimed, the price still further increased, until taught him that there was more to be made by constructing to day as high as \$1,000 has been paid for the reclaimed musical instruments than by playing upon them. Accordingly, he abandoned his earlier notions and became a voluntary apprentice to a piano manufacturer. He worked first with Van Winckle, of Port Chester, and afterward served an apprenticeship with Holder, of New York. With assiduity he devoted himself to the art of piano construction for under cultivation this year, and the success of the onion about six years, in which time he thoroughly mastered its business in the meadows has led to the reclaiming of similar details and intricacies, and then, being ambitious and aspir- lands in other parts of the country, until it is believed that ing, set up in business on his own account. His first store the onion crop of Orange county will amount to 500,000 was a little music shop on West Broadway, near White bushels this year. The average price received by onion rais-

Weston's Walk.

The longest distance ever made in a six days' walking match-550 miles-was accomplished by Edward Weston, the well known pedestrian, in the contest for the championship in London, June 16-21. The best previous record was made by Weston's opponent, Brown, in April last, when he street. Later, he moved further up West Broadway, and ers is \$1 a bushel. The average yield is 300 bushels to the covered 5421/2 miles. In the last contest Brown broke down opened a store near the corner of Lispenard street. During acre. The crop is almost invariably sold for cash as soon as on the third day, and made, in all, only 453 miles. Weston's these years his business continued to increase, and in 1864 it is ready for market, and as it matures early in the season, daily records were respectively 123, 97, 93, 77, 83, 77 miles.