

feet of each other, are two iron tracks laid down the middle of its groove; these pulleys run The conductor, when he wishes to set the car MESSRS EDITORS-Your paper grows better in motion, pulls down on the rod, K, and atand better every week, and I cannot very well in the usual manner, upon which it is intended each on its own axle, which is secured to a standard rising from the frame that supports the taches it to a hook on the car; this clamps the get along without it. I find it difficult to get a to run two lines of cars, each, say four feet grip to the running endless rope, F, and this upper rails. From the car there rises an upclass of people whose business it is to till the wide, and of any convenient length, one line runs the car forward. By disengaging the rod, soil, to subscribe for a scientific journal; they up on one rail, the other line down on the other right post, which carries on its upper end a thin think they can dig rocks, plant corn, cut grain, the upper half of the clamp or grip, G, opens rail. The wheels of the cars are placed under stem, J, capable of passing between the pulleys or dress flax, without studying science, but if and the driving rope runs freely through the the center lines of these frames, ranging with and supporting a grip brake of peculiar conthey would study their own interests, they clamp. There are small grooved pulleys on the struction, which, by a rod and spring, can be each other. The balance of the cars is preservsides of the clamp, and I are their guide rails. would not be without the American, which ed by another set of wheels placed in line above made to grip the moving rope or let it go in-M represents a cuneform block on each car, and would keep them thoroughly posted up on all stantly, so as to permit the car to stop and take the first set, and which run under or between the improved machines for doing the very same L are anti-friction steadying rollers to guide the elevated rails placed fifteen to twenty feet above in or leave passengers. car; they run against the inside of the lower work that they now have to do by hand at five the ground rails. These elevated rails are A A are the two single rail tracks; B B are bearers, N. The pulleys are driven by station times the expense of machine labor, besides, supported upon cross bearings and framing, the supporting posts, and D D are two of the the many valuable receipts which it contains ary steam engines-one or more, as may be nesupport arms thrown across the street for supwhich connect a double row of pillars about more than pays for each volume; in short, it is cessary. This is certainly a good plan for a forty feet apart, or rather from curb to curb, porting the frame with its driving pulleys. This the best and cheapest scientific paper in the ground railway, to economise the space in the frame is double, one side for cars going down, leaving fourteen feet when the cars are side by world, if my judgment serves me. street, and to obviate the use of horses and yet and the others for the cars going up. C N reside, that is, each side of Broadway, and in the L. M. PARKER. absence of the cars leaves 34 feet The cars present an upper and lower longitudinal bearer employ steam power. Shrewsbury, Mass. It is some time since we first saw Mr. Deitz's -two of these on each side, and a pair in the are to be propelled by an endless rope extendmodel, and since that time our attention has middle, with their vertical and the cross braces, ing from Union Square to the Bowling Green, The Sugar Crop. been directed to a plan by Patrick O'Neil, of form the pulley frame. E is one of the coned and running over the upper set of wheels. One Brooklyn, which embraces the above method of The sugar crops of the Louisiana plantations of the most ingenious arrangements of this sheaves for driving the endless band or rope, F. propelling the cars; but Mr. O'Neil's plan is for are remarkably good this season. One-third plan is that by which the rope is supported G is the grip, or device for connecting the car an elevated continuous railroad, embracing an of the planters have already commenced rolling, overhead, and connected or disconnected with with the endless rope, which it encircles, and and a hogshead and a half of sugar is made the cars at will. The rope is supported at infor arresting the car. It is attached to the car arcade, covered with glass, and is really a magfrom an acre of cane. nificent project. tervals by pairs of sheaves or pulleys, placed ex- by a blade, J, in front; it is hollow, formed in

spring on it, which tends to throw it open. K sheaves in form that of the one-half of a grooved What Sensible People Think of the Scientific Deitz, of the city of Albany, N. Y. American. is the brake rod attached to the upper half. In the center of the street, say within six pulley, the pulley being cut asunder through

The annexed engraving is a perspective view | actly opposite to each other, in prolongation of two sections, the upper one being hinged at one pendicular. of a new railroad for Broadway, by William their axes, and about an inch apart, each of the side to the lower one. The upper half has a