

to inquire upon this and other pertinent subjects, reported a mass of evidence in favor of low fares that no reasonable man could resist, and some of the English companies propose to give the low fare system a trial upon the most radical scale. We are rather fearful they may not persevere for the length of time necessary to give the system a fair trial. The proper

## New York and Erie Railroad,

mean is the thing to be arrived at.

A heavy body falls through 15,0954 feet in The Buffalo Courier says-"We are informed by Mr. C. Story, who last winter ably represented, in part, the county of Dutchess, in the Assembly, and who is now doing some of the heaviest, if not the heaviest work on the Erie Railroad, that the entire balance of the line, from Corning to Dunkirk, will be finished and in complete running order, on the first day 1812 imp. feet. of May, 1851. Mr. Story's contract covers the The spaces described in different times by a most formidable work to be done. It is twelve miles in length. He is now working one thousand men, daily, and is about to put on five hundred more. Every section is under contract, and is being prosecuted with the utthe end of those most vigor. Another season will therefore Gravity and an weight are not always witness the effect which this route will have upon the vast tide of travel flowing from the of which weight is the effect. west. To find the Tonnage of Ships It has been announced that Mr. Sellers, of Rule 1. Multiply the length of the keel, Cincinnati, has been appointed Mechanical taken within the vessel, by the length of the Engineer of the Panama railroad to reside in midship beam, taken also within, from plank this city. The company propose to complete to plank, and that product by half the breadth, This is an improved machine for turning handle, K, at right angles with the direction of the work to Gorgona by June, 1851, and the taken as the depth; then divide the last prowooden bowls. It is constructed to alter the the movable bottom; D is a reciprocating whole in two years. The road will be first duct by 94, and the quotient will give the shape or thickness, and it will turn seventy frame turning on a pivot, which is connected laid to Chagres on pile, to be filled with the tonnage. If the length of a ship's keel be 80 feet of bowls per hour. It is easily kept in with the semi-circular frame, C; it is meved excavations on the line. The rail is to be feet, and the midship beam 30 : required the order, and its simplicity is one of its peculiar by the large crank handle in front, the shaft made of wood found along the line, so hard tonnage,-Ans. 385.9787 tons. that it is difficult to work it by common tools. traits. The bowls made by it are wonderfully of which has a pinion on it, which takes into We have a number of communications smooth and perfect in form. a cog rack on the underside. The cutter arms, The passage of the Texas Bill, giving her A is part of the frame; B is a moveable E, are attached to this frame; in the said awaiting attention. Owing to the extent of our index, the best we have ever got up, some ten millions, will enable her to pay off nearly bottom, and is moved by the screw handle, I. arms are set the spurs and cutters, L, to cut her whole debt. We hope her citizens will C is a semi-circular frame placed on the top of the bowl from the block of wood, which is communications are laid over until another then invest considerable in plank, or railroads. the movable bettom; it is moved by the screw screwed to the chuck, F. The apparatus for period.

EVERETT'S WOODEN BOWL TURNING MACHINE.



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in every part of the world is almost unlimit-

ed, the use of Mr. Everertt's machines will form

a profitable item in the statistics of our coun-

Gravity.

try.

ones cond in the latitude of London, in a vacuum at rhe level of the sea; the double of this quantity, or 30.1908 feet, is the measure of gravity at that place. At Paris, under the like circumstances, the fall of a heavy body is 4.90434 metres, or 16.0906 imp. feet; and the measure of gravity 9.80867 metres, or 32.

falling body, are to each other as the square of the times from the beginning of the descent; or, which produces the same result, they are as the squares of the velocities acquired at

interchangeable terms-gravity being a power

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