

Railway from St. Petersburgh to Warsaw. the progress of the vessel when under sail. The works of the railway from St. Petersburgh, Russia, to Warsaw, Poland, are being carried on with extraordinary activity. The

mended to the favorable consideration of

number of workmen at present exceeds 10,000, and they work during part of the night. All the rails necessary for this immense line are to be delivered by the end of July, and the contracts for the supply of locomotives have

ble in the hub, for the purpose of altering the

pitch of the screw, and for bringing the blades

to a position to offer no material resistance to

Another principle of the improvement con-

d. The hub is also bored transversely to receive the pivots, c c', of the propeller blades, D D'; these pivots are not radial to the hub, but pass through it at equal distances from the axis on opposite sides of it. Each one of the pivots carries a small toothed pinion, e e, gearsists in so operating one of the blades, that, | ing into the rack, d, on the rod, a b. The hub when brought into a proper position, and the relis solid except where it is bored to receive the

Figure 2.

The superiority of this mode ot arranging and adjusting the blades, consists chiefly in the depth of bearing, or socket obtained for the pivots of the blades, by fitting them through the hub. The common arrangement is to make the pivots, c c, radial, and to turn them by bevel gearing-that is, in arrangements of adjustable blades; this prevents their being carried through, and requires the hub to be hollow to receive the gearing. This arrangement is therefore more compact, and far stronger, according to the dimensions of the parts. The steering improvement, in many cases, may be the means of saving a vessel, such as in a case like the Helena Sloman.

by a set screw, q, which passes through the

shaft, B, into a recess in the part, b, of the rod.

The screw bolt, n, is then loosened from that

part, a, of the rod, which is thus left free to be

moved independently of the other part, b, of

the rod, thus enabling one of the blades to be

used for a rudder in an emergency.

just been signed.

Philadelphians.

The Prussian Government contemplate making a great reduction in the present duties on British iron, steel, and machinery of every description, either for railways, steamboats, or manufactories, which at present nearly prohibited by the high tariff imposed upon their entry.

Silver in Bohemia.



The silver mines discovered in 1850, in Borod and the pivots, and where it is slotted gitudinally, the rack, d, turns the pinions, e e, hemia, are reported to be so productive that from the outside to the centre bore, to allow and by this means the blades, D D', are brought The workmen commenced laying the track the government has ordered the other mines, the pinions to be inserted. The pinions are to any position either in line with or parallel of the Central Railroad on the 28th ult., and secured to the pivots, and the pivots are con- to the axis of the screw, or at any pitch or in- it was expected that it would be laid 20 miles eleven in number, which have been abahdoned for half a century, to be again worked, in fined in the hub by the pinions or by other clination in either direction, so as to make a in ten days, and thus allow the cars to come hopes to find them similarly rich. suitable means. If the rod, a b, be moved lon. right or left hand screw; the pinions are gear- into Chicago.