

excite a feeling of regret .-- [Railway Record. [The above relates to Mr. Hudson, who was almost hooted out of society last year, by public opinion in England, for what was termed " infamous railroad swindling."

## The Compound Railroad Iron.

The Baltimore Patriot says, we published a notice on Thursday, of the specimen of a continuous railroad iron, which is now on exhibition at the Mechanics' Fair. It was manufactured at the Mount Savage Iron Company's Works, in Allegheny county, for whom Messrs. E. Pratt & Brothers, of this city, are agents. It is a decided improvement on the usual rail, and is fast coming into general use. The Mount Savage Works, are, we understand, now engaged on a contract for 1000 tons. ordered by the Utica and Schenectady Railroad, in New York, which they ordered after a trial of twelve months of the rail on a short distance on their road, which they laid to test it. It is now being received and forwarded from the Baltimore and Ohio Railroad Company's wharfs, Locust Point. Some 700 tons have already gone forward. It makes a continuous rail by breaking the joints and hence it is not liable to the great difficulty that attends the common T rail and other patterns, which give way where the two rails join. It also allows a greater speed over the road, with equal safety and more ease, and with less wear and tear to the cars.

pieces, c, and two cheek pieces, d, which em- which the steam passes off. There will be a few more remarks about this brace the upper portions of said wheels, steam tight; so that it cannot escape except by engine next week.

> for the same. A is a tube or pipe made of wood or metal, secured in a proper place on the quarter-deck by a flange at the top, and extending down to the outside of the keel of the vessel, and in the interior of this is arranged and connected the machinery attached to a vane below, to move a pointer above and indicate the leeway.

Figure 1 is a perspective view, and figure 2 is a vertical view, showing the interior and how the vane can be drawn up when the vessel comes into port, or for any other purpose. The same letters refer to like parts. A is the pipe spoken of; B is a piston rod, it the development of roots, and leaves are requirpasses down through the dial plate, H, and | ed to secrete more, to replace that which was works in a collar of the said plate, so as to be moved around; on this rod is a piston, C, to there is sufficient organised matter in the fit snugly in the pipe, to make the rod work cutting to supply the roots, without exhausting is a spring secured to the bottom of the piston, C, and abutting against the vane, D, to keep the vane in its horizontal position ed. below, when the vessel is sailing, but which allows the vane to be drawn up, (as it is attached by a pivot joint to the rod B) when a considerable power is applied to it for that purpose. F is a pointer attached to the top of the rod, B, and according as the re-action of the water, by the drift of the vessel, acts upon the vane, D, to turn it out of the parallel

line with the keel, so will the indicator point

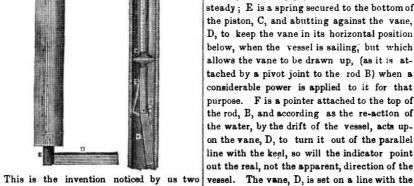
out the real, not the apparent, direction of the

lax and not matured, failures may be expected to attend all attempts to propagate them by cuttings.

The next part of the subject is to inquire in what manner the leaves retained on the cuttings assist the protrusion of roots, and the development of other leaves.

As the removal of the cuttings from the parent branch will make no change in the nature of the sap, which is always more or less in circulation in the whole system of the plant, and it is the office of the proper juice to descend in the cuttings to the joint at which it was cut; when its downward course is impeded, it accumulates there until a callous is formed, and roots are protuded; the organised matter of the cutting is diminished to supply expended in the formation of roots. It is when energies, that the extern

A Modern physiologist notes the extraordinary fact, that at the dinner table, every time a man crooks his elbow his mouth opens. Can weeks ago, as that of Mr. J. Wilder, of De- keel, so as to be affected by the side tow only. anybody explain this phonomena.



Wilder's Leeway Indicator.

F1G. 2.

FIG. 1.

tance derived from the leaves may not beneed-

The London Times of the 12th instant, states that a steamer has arrived at that port from Russia, with eighty-nine packages of goods intended for the great Industrial Exhibition. Another lot of goods, equally as large, was daily expected from the same country.

The new pavement on the Boulevards, Paris, has been found to answer admirably; it is free from mud in rainy weather, and from dust in dry weather. It consists of small stones which are besmeared with cold bitumen and troit, Michigan, who has applied for a patent With respect to its practical action and use oil.

© 1850 SCIENTIFIC AMERICAN, INC