Scientific American,

THE ADVOCATE OF INDUSTRY, AND JOURNAL OF SCIENTIFIC, MECHANICAL AND OTHER IMPROVEMENTS.

VEDDER'S HYDRAULATOR.

Dol. 4.

New Pork, December 23, 1848.

No. 14.

THE SCIENTIFIC AMERICAN : CIRCULATION 11.500. PUBLISHED WEEKLY. At 128 Fulton Street, New York (Sun Building,) and 13 Court Street, Boston, Mass. By Munn & Company. The Principal Office being at New York. WERMS---\$2 a year---\$1 in advance, and the remainder in 6 months.

Poetry.

13-See advertisement on last page.

THE TREASURE SEEKER. BY GOETHE. Many weary days I suffered Sick of heart and poor of purse;

Riches are the greatest blessing-Poverty the deepest curse ! Till at last to dig a treasure,

- Forth I went into the wood-" Friend ! my soul is thine for ever !
- And I signed the scroll with blood.

Then I drew the magic circles, Kindled the mysterious fire, Placed the herbs and bones in order, Spoke the incantation dire. And I sought the buried metal

With a spell of mickle might-Sought it as my master taught me; Black and stormy was the night.

And I saw a light appearing In the distance like a star; When the midnight hour was tolling, Came it flashing from afar;

Came it flashing, swift and sudden; As if fiery wine it were, Flowing from an open chalice,

Which a beauteous boy did bear. And he wore a lustrous chaplet,

And his eyes were full of thought, And he stepp'd into the circle, With the radiance that he brought.

And he bade me taste the goblet ; And I thought-' It cannot be,

That this boy should be the bearer Of the demon's gift to me !'

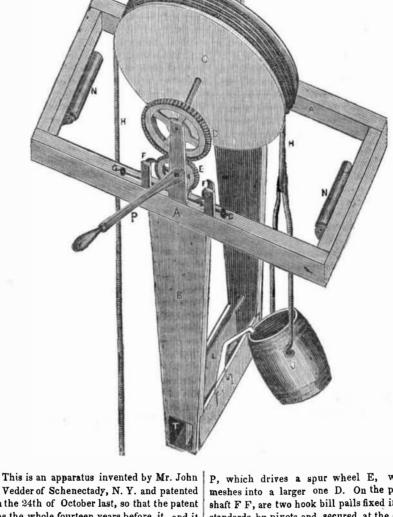
'Tas'e the draught of pure existence, Sparkling in this golden urn, And no more with baneful magic Shalt thou hitherward return. Do not dig for treasure longer ; Let thy future speed-words be Days of labour, nights of resting ; So shall peace return to me !" "

FAITH'S GUIDING STAR. We find a glory-in the smile That lives in childhood's happy face, 'Ere fearful doubt, or wordly guile, Have swept away the angel trace. The ray of promise shineth there, To tell of better lands afar; God sends his image pure and fair, To keep undimmed Faith's guiding star.

We find a glory in the zeal Of doting breast and toiling brain, Affection's martyrs still will kneel. And Song, though famished, pour its strain. They lure us by a quenchless light, And point where Joy is holier far ; They shed God's spirit, warm and bright, And keep undimmed Faith's guiding star.

We muse beside the rolling waves, We ponder on the grassy hill, We linger o'er the new-piled graves, And find that star is shining still, God, in his great design, hath spread Unnumbered rays to look afar ; They beam the brightest o'er the dead,

And keep undimmed Faith's guiding star.



I. Vedder of Schenectady, N. Y. and patented on the 24th of October last, so that the patent has the whole fourteen years before it, and it is an improvement on the same kind of appa. ratus patented by him some years ago.

A A, is a frame erected on the curb of the well. B B, are two side standards the bottom of one communicating with the inside trough by the spout T, through which the water comes. C, is a large grooved pulley, over which the rope H H, passes, to elevate and lower the buckets J, one of which is seen about to be tilted over into the trough, while the other is down in the well. When the bucket J comes up to the trough, it is caught by a crooked arm fixed to the side of the trough so as to bend back a short distance and let the bucket tip over the edge of the trough and be emptied. L is a guard plate placed in the middle of the trough extending across it, to prevent the water splashing over. N N, are two friction pullies on the frame to prevent the rope from being chafed while passing up or down. The pulley is driven by a handle

Origin of "True Blue."

Every body has heard and made use of the

phrase "true blue ;" but every body does not

know that its first assumption was by the

badge of Charles I; and hence it was taken

by the troops of Lesley and Mortrose, in 1739.

The adoption of the color was one of those re-

ligious pedantries in which the Covenanters

affected a pharisaical observance of the Scrip-

akkuk and Zerubbabel, and their chapels Zion

and Ebenezer, they decorated their persons

with blue ribbons, because the following

sumptuary precept was given in the law of

Moses: "Speak to the children of Israel, and

tell them to make to themselves fringes on

the borders of their garments, putting in them

ribbons of blue." Numbers xv. 38.

tural letter, and the usages of the Hebrews and thus, as they named their children Hab. P, which drives a spur wheel E, which meshes into a larger one D. On the pulley plane table 2,318 miles, and an extent of shaft F F, are two hook bill palls fixed in two shore line and roads of 7,179 miles; and by standards by pivots and secured at the other the soundings 20,086 square miles, of which ends to a rod G G. These palls are for the purpose of catching into the teeth of E so as to allow the buckets to move up and down, and yet to lowing States : Maine, New-Hampshire, Mashold the bucket at any point desired, pushing sachusetts, Rhode Island, Connecticut, New-G backwards and forwards, to throw one pall in and the other out of gear with E as may be required. This prevents the crank from being turned the wrong way and there is no isiana and Texas. danger of the buckets filled with water dropping down into the well again, even if a child is operating the handle P. The guard plates in the centre of the trough prevent the Dead Sea, the River Jordan, and the Pool the water from splashing and wetting the of Siloah ; and fragments of the pillar of salt rope on the other side, and it is therefore a into which Lot's wife was transformed, as a good improvement to render the well rope punishment for her disobedience to the commore enduring. This engraving presents the apparatus in such a view that all the parts will be distinctly understood.

More information may be obtained by addressing the inventor, post paid.

Cannel Coal.

valuable mineral have recently been discovered on Coal River, in the county of Kanaw-Covenanters, in opposition to the scarlet ha, Va. They spread over five or six miles the Supply-as an Egyptain mummy, a pair of square-and the vein varies from three to ten the cattle of Arabia, rosaries made of wood feet in thickness. From some indications it is from the Holy Mount, shells from the shores not improbable that an entire mountain is sol- of the Dead Sea, gazelles, &c. id coal. Last year a mine of the same species | Cotton Consumption in the United States. of coal was discovered not very far from the From an article in the New York Dry Goods same place. The coal is the perfection of all | Reporter we learn that the cotton consumed cept a few small ones in England.

> have been the derangement of the compass by produces 755,000,000 yards of goods, or 471 the iron of the vessel !!!!

RAIL ROAD NEWS.

The New York and Montreal Railroad line having been opened on Monday last, from Saratoga to Whitehall, travellers during the coming winter will be enabled to start from Whitehall in the morning and arrive in New York, via Troy and New Haven and New York Railroad, by ten o'clock, P. M., or before.

Railroad to the Pacific.

Messrs. Howland and Aspinwall the great shipping merchants of this city have petitioned Congress for assistance to construct a Railroad across the isthmus of Panama. The petition has met with encouragement and at present all idea of Whitney's Railroad to Oregon seems to be out of the question. California and the Bay of San Francisco seems to be the climax of a railroad to the Pacific at present.

Kailroads in Ohio,

The Statesman says " the State of Ohio has now, either completed or commenced, 515 miles of railroad, which, when finished, will use over 38,000 tons of railroad iron."

Canal to the Pacific.

We see by the N. O. Commercial Bulletin, that the English house of Manning & Mackintosh have obtained control of the Mexican route to the Pacific, at the isthmus of Tehuantepec, and already commenced preliminary operations for making the canal. And so, very well, but we can beat that, and must do it. Uncle Sam must now set to work and build a railroad, and that he will not soon do it, "who's afraid."

Coast Survey.

The Report of the Superintendent of the Coast Survey, submitted to Congress on Tuesday week last snows that since 1844 there has been covered by the triangulation 17,555 square miles; by the topographical surveys with the 16,824 were principally off-shore or deep-sea work. This work has been done in the fol-York, New-Jersey, Pennsylvania, Delaware, Maryland, Virginia, North-Carolina, South-Carolina, Georgia, Alabama, Mississippi, Lou-

Curiosities from the Holy Land.

Lieutenant Lynch has brought home with him a number of specimens of the water of mand of the Almighty.

In regard to this last, we are informed that the pillar from which it was taken rises nearly forty feet high, stands exactly in the snot designated by the Bible, and that Lieut. Lynch, the commander of the Dead Sea Expedition, expresses the confident opinion that it is the representative of what was Lot's wife. We We learn that very extensive mines of this believe it has not been seen before for many centuries. Josephus records its existence.

There are many other curiosities on board

coal-and until the discovery of these two in the United States during 1847-8 was not far mines, we believe no others were known ex- from 480,000 bales, employing \$80,357,130 capital, 101,260 operatives, 3,012,500 spindles, and distributing weekly in wages \$363,-The cause of the accident to the steamship 214, or \$18,887,128 per annum, and for all Great Britain, according to late English pa- expense, not including cotton, \$491,785 weekpers, has been satisfactorily ascertained to ly or \$55,562,820 annually. This interest yards to each individual.