An Old Patent and an Old Inventor. The inventor who has received a patent subscribed with the handwriting of Washington, must feel proud indeed in the possession of such an instrument. Such a man is John J. Staples of the city of New York, who is the oldest living inventor holding a patent in the United States, and perhaps the oldest living patentee in the world. We publish the following patent from respect to the memory of the departed great, and the worth and genius of the honored living. Many of our readers will esteem this a great curiosity and valuable relic, and will desire to know something of the inventor himself, whose inventions are associated with the name of "the Father of his Country." Mr. Staples is now about 80 years of age and his head is whitened with the snows of many winters. His eye is still bright and his mental faculties clear. Hisstep to be sure is less firm than of yore but his body is still erect and stately. Mr. Staples is an inventor who has had the honor of securing a patent from every President of the United States, except the lamented Harrison. He has a patent which we have seen, given under the handwriting of President Thomas Jefferson, for a Tidal Wheel to propel machinery, and the first invented in the # United States.

This patent is for a Locomotive, but not a steam one, and in comparison with the mode in which specifications have now to be made out, it presents a very great contrast.

THE UNITED STATES OF AMERICA. To all to whom these Letters Patent shall come

Whereas John J. Staples, Junior, a citizen of the State of New York, in the United States, has alleged that he has invented a new and useful improvement in the construction of a Carriage to be propelled by the mechanical Powers, which improvement has not been known or used before his applica- /lieve answers nearly the same purpose. Gutta me. tion; has made oath that he does verily believe that he is the true inventor and discoverer of the said improvement; has paid into the Treasury of the United States the sum of thirty dollars, delivered a receipt for the same and presented a petition to the Secretary of State, signifying a desire of obtaining an exclusive property in the sold improvement, and praying that a patent may be granted for that purpose : These are therefore to grant, according to law, to the said John J. Staples, Junior, his heirs, administrators or assigns, for the term of fourteen years, from the twenty second day of the present month of April, exclu-iveright and liberty of making, constructing, using, and vending to others to be used the said improvement, a description whereof is given in the words of the said John J. Staples, Junior himself, in the schedule hereunto annexed, and is made a part of these presents.

IN TESTIMONY WHEREOF, I have caused  $\{\widetilde{L.S.}\}$  these Letters to be made Patent, and the Seal of the United States to be hereunto affixed.

Given under my hand, at the City of Philadelphia, this twenty-fifth day of April, in the Year of our Lord, one thousand seven hundred and ninety four, and of the Independence of the United States of America the eighteenth.

G9. WASHINGTON. By the President, EDM. RANDOLPH. City of Philadelphia, TO WIT :

said, to wit : On the same 25th day of April cessary supply will suffer no diminution. in the year aforesaid. WM. BRADFORD.

The Schedule referred to in these Letters ing a description in the words of the said John J. Staples, Junior, himself of an improvement in the construction of a Carriage to be propelled by the mechanical powers

General description of a travelling Carriage, which is to move without the power of Horses, carrying from 2 to 4 persons, requiring the labor of one of which to regulate its movement-will ascend any hill that is ac-

great rapidity, and is in every respect as manageable as those drawn by horses, its velocity being increased or lessened at pleasure by the application of the five following powers as occasion may require. The first power, which is the greatest, is the weight of the whole carriage with whatever is contained therein, which is raised up by the oval wheels in turning round, and when descending acts on the shortest lever. 2d Power is the weight of the top frame which supports the carriage body with its contents, which being likewise wound up by the said oval wheels at the same or a different time acts in descending on the two next size levers and is the next greatest power. 3d Power is the carriage body which being fixed on 4 friction rollers vibrates as a pendulum acting on the iwo longest levers. 4th. Is the weight of the person who regulates the motion acting likewise on the ends , night. His limbs became distorted with rheuof the said 2 long levers and is the first motion the carriage receives. 5th. Is an occasional power which is gained when descending a hill by winding up two springs placed under the carriage which also acts with great force on the ends of the aforesaid two long levers when rising a hill.

JNO. J. STAPLES, JR. Witnesses-SAM'L. FOLWELL, GEO. TAYLOR.

### SCIENTIFIC MEMORANDA. India Rubber.

The India Rubber Factory at Harlem, this city, is makingdaily about 700 pounds of india rubber springs for railroad cars. In combination with the india rubber a portion of white or black lead is used which must make a su. perior composition, to what is called curing, alone. Vulcanized india rubber is simply sulphur combined with the india rubber at a great temperature. Sulphurous gasses we beperchais vulcanized by the same process.

Electric Light Again.

By late foreign papers we learn that experiments have been made in France for throwing an electric light upon the railroad in front of the cars. The experiments have been partially successful.

# The Bosphorus.

From the late extensive observations of M. Hommaire de Heil, it appears that there is no appreciable difference of level between the Black Sea and the Sea of Marmora; and consequently there is no real current flowing out of the Black Sea through the Bosphorus. He attributes all apparent currents to the winds, which being mostly from the North, produces generally a flow from the South. This is compensated for by the strong currents flowing to the North during the Southerly winds.

A Reform in Locomotive Fael Wanted. It has been stated that the Reading Railroad Penn., during the year 1847 consumed by its locomotives 90,746 cords of wood. The consumption of wood on all our railroads is enormous and must soon thin our country, woody though it be, of its vast primeval forests. Hitherto, the motion, by shaking the coals into solid mass, has prevented the use of coal.

Why do they not use coke made of bituminous coal? No wood is used on the English Railways.

#### Emery in Asia Minor.

M. Tchihatcheff, in his recent explorations I DO HEREBY CERTIFY : That the foregoing in Asia Minor, says Silliman's Journal, has Iy upon it, although I have never received a Letters Patent, were delivered to me on the brought to light extensive beds of Emery in 25th day of April, in the year of our Lordone the Western portions of this country, particuthousand seven hundred and ninety four, to larly between the ruins of Stratonicea in Caria however, celebrity, and he says it also gave be examined; that I have examined the same and Smyrna. This substance is indispensible and find them conformable to law. And I do |in polishing minerals and all hard stones, as hereby return the same to the Secretary of well as for the lapidary's use generally, and by State within fifteen days from the date afore- these new discoveries, it is evident the ne-

Height of the Atmosphere.

Sir John W. Lubbock, according to the hypethesis, adopted by him in his Treatise on Patent, and making part of the same, contain- |Heat of Vapors, shows the density and temperature for a given height above the earth's surface. According to the hypothesis, at a height of fitteen miles the temperature is 2400 Far. below zero ; the density is .03573; and the atmosphere ceases altogether at a height of 22.35 miles. M. Biot has verified a calculation of Lambert, who found, from the phenormena of twilight, the altitude of the atmosphere to be about eighteen miles. The con- cute inten years, if I would do them. Indeed, 1 one of its horns.

according to the hypothesis adopted by Ivory, is very different, and extends to a much greater height.

The Sufferings, Perseverance, and Triumph of Genius.

There is at present in England an American who went to that country to endeavor to interest the capitalists in a new bridge which he has constructed. His name is Remington, a native of Virginia. 'An account of his progress is given by himself in a letter to Dixon H. Lewis, and published in Hunt's Merchant's Magazine. When he arrived in England in January 1847, he was without money, and spent the first five months vainly looking for somebody with enterprise enough to encourage his plan, living all the time on less than three pence per day. He slept upon straw, for which he paid a half penny per matism, and he was literally covered with with the lowest beggars in London. Still he about England. I know it well. I have dindid not despair. His sufferings were so great ed with earls, and from that down-downthat his head turned grey. He had to pay to down to where the knives, forks and plates Zoological Gardens, where he succeeded, at istolen." ter much mortification in getting a model made of the bridge. The model although a bad one astonished every body. Every engineer of celebrity in London was called in to decide whether it was practicable to throw it across the lake. Four or five of them at the final decision declared that the model before them was passing strange, but that it could not be carried to a much greater length than the length of the model. This was the point of life or death with the inventor. He says; -

" I was standing amidst men of the supposed greatest talent as civil engineers that the world could produce, and the point decided against This one time alone were my whole energies ever aroused. I never talked before -I was haggard and faint for want of foodmy spirit sunk in sorrow in view of my mournful prospects-clothes I had none-yet, standing over this model did I battle with those men. Every word I uttered came from my inmost soul and was big with truth-every argument carried conviction. The effect on these men was like magic-indeed, they must have been devils not to have believed under the circumstances. I succeeded. My agreement with the proprietor was that I should superintend the construction of the bridge without any pay whatever, but during the time of the building I might sleep in the Gardens, and if the bridge should succeed, it should be called 'Remington's Bridge.' I lodged in an old lion's cage not strong enough for a lion, but by putting some straw on the floor, held me very well, and indeed was a greater luxury than I had for many months. The carpenters that worked on the bridge sometimes gave me part of their dinner. On this I lived and was comparatively happy. It rags directing gentlemanly looking head in London. The money made by it was astonishingly great, thousands and tens of thousands crossing it paying toll, besides being the great attraction to the Gardens. Not a publication in London but whathas written largepenny nor ever will for building the bridge.

The success of his invention gave him, him credit with a tailor.

I got a suit of clothes and some shirts-a clean shirt. Any shirt was great, but a clean them when in a passion. shirt-O God, what a luxury ! Thousands of cards were leftfor me at the Gardens, and men popular patent ever taken in England. The exceedingly well. The drainage of Tixall Earl Talbot is a most majestic and wooderfully beautiful thing. Dukes, marquisses, earle,

cessible to common carriages, moving with dition of the higher regions of the atmosphere, have been so much among the aristocracy of late that what with high living, being so sudden a transition from starving, I have been compelled to go through a course of medicine and am just now convalescent. Of course anything once built precludes the possibility of taking a patent in England, but its merits and value are beyond all calculation. A permanent, beautiful and steady bridge may be thrown across a river half a mile wide out of the reach of floods, and without anything touching the water, at a most inconsiderable expense. The American patent is well secured at home I know. I shall continue to build a tew more bridges of larger and larger spans and one of them a railroad bridge, in order that I may perfect myself in them so as to commence fair when I reach America. I have a great many more accounts of my exploits since I came to Stafford, but must defer sending them until next time. I beg you will write me, for now, since a correspondence is rags and vermin, consorting as he had to do, opened, I shall be able to tell you something usurers  $\pounds 10$  for admittance to the Royal are chained to the table for fear they should be

Jeffery the able Editor of the Edinburg Review once said. Offer a prize of a thousand pounds for the best Essay on Greek and ten chances to one if a yankee dont win it, and some fellow who could not read a word of it before he saw the offer of the prize. The case of Mr. Remington exhibits a heroism of a far more elevated and ennobling character than the triumph of valor on the battle field.

#### **Respect** for Art.

A nobleman having called on Holbein while he was engaged in drawing a figure from life, was told that he could not see him but must call another day. Foolishly taking this answer as an affront, he very rudely rushed up stairs to the painter's studio. Hearing a noise Holbein opened his door ; feeling enraged at his loudship's assumption and intrusion he pushed him backwards from the top of the stairs to the bottom. However, reflecting immediately on what he had done he repaired to the king. The nobleman, who pretended to be very much hurt, was there soon after him and having stated his complaint, would be satisfied with nothing less than the artist's life : uponwhich the king firmly replied-'My lord, you have not now to do with Holbein, but with me ; whatever punishment you may contrive by way of revenge against him shall assuredly be inflicted upon yourself.-Remember, pray, my lord, that I can, whenever I please, make seven lords of seven ploughmen, but I cannot make one Holbein of even seven lords."

## The African Rhinoceros.

The Black Rhinoceros, whose domains we seem now to have invaded, resembles in genwas a little novel however, to see a man in eral appearance an immense hog; 123 feet <sup>i</sup>long, 6<sup>1</sup>/<sub>2</sub> feet high, girth eight feet and a half, carpenters. The bridge triumphed, and it 'and of the weight of half a dozen bullocks ; its cost  $\pounds 8$ , and was the greatest hit ever made body smooth, and there is no hair seen except at the tips of the ears and the extremity of the tail. The horns of concreted hair, the foremost curved like a sabre, and the second resembling a flattened cone, stand on the nose and above theeyes; in the young animals the foremost horn is the longest, whilst in the old ones they are of an equal length, namely, a foot and a half or more; though the older the rhinoceros the shorter are its horns, as they wear them by sharpening them against the trees, and by rooting up the ground with

When the rhinoceros is quietly pursuing his way in glades of Mimosa bushes, (which his came to the bridge from all parts of the king- hooked upper lip enables him readily to seize, dom. I first built the mull, which is the most and his powerful grinders to masticate,) his horns, fixed loosely in his skin make a clapcoffee pot and many other small patents take |ping noise by striking one against the other, but on the approach of danger, if his quick Meadows is the greatest triumph I have yet lear or keen scent make him aware of the vihad in England. The carriage bridge for cinity of a hunter, the head is quickly raised, and the horns stand stiff and ready for combat on his terrible front. The rhinoceros is often lords, &c., and their ladies are coming to see accompanied by a sentinel to give him warnit from all parts. I have now more orders for ling, a beautiful green backed, and blue wingbridges from the aristocracy than I can exe- led bird, about the size of a jay, which sits on