# Scientific American.

Recent Foreign Patent Law Cases before Chief Baron Pollock, London. The parties were George R. Booth, a practical chemist, as plaintiff, and J. Kennard, civil engineer, History of the Telegraph; Difficulties and Sue-ax defendant. The action was for the infringe-: cess of an Inventor. as defendant. The action was for the infringement of two patents granted to the plaintiffone for the 12th Oct., 1850, and the other on 8th of May, 1852.

The first patent was for an improved apparatus for making gas from oil. Its novelty con- ner was given on board the James Adger to the sisted in suspending the retort by the neck in public citizens of that place, at which Prof. a heated furnace, and making the inside of the retort corrugated. By this means a more lows: equitable heat was obtained than by the old system of making gas from oil, by dropping the oil upon stones or bricks in the retort, which latter rested upon brick work, instead of being suspended by the neck in the furnace, and allowing the fire free access around it. The second patent was for making gas direct from dially, for the flattering mention you have made success more complete or more astounding? oleaginous seeds, instead of first extracting the oil from them. This latter patent was stated to be valuable, as it enabled every farmer growing flax or rape seed to make his own I place myself as one only amongst the instru- night they cease not to throb with intelligence, gas by a small portable apparatus. The de- mentalities in this great enterprise of binding and they confer upon man a power of semifendant had made and sold apparatus and ma- | the nations together in the bands of electric omnipresence. In Europe lines of telegraph terials for making gas in London, the same as intercourse. It is thus only that I find relief have been constructed to an extent nearly rithose embraced in Booth's two patents.

The Chief Baron said, in giving his decision, that "he was decidedly of opinion that the second patent was void, inasmuch as the patother vegetable substances claimed, and the in- of my majesty." Who is it that commands the ventor prevented from using it."

parties.

plaintiff concluded that this machine, in every respect, infringed the claims of his patent.

ted that a machine which was produced in ment. This was the turning point of the tele-court for accomplishing the same results, had graph invention in America. As an appro-would quickly be seen that the arts and sci-casting by weighing the pattern, would be usebeen in use in Manchester in 1839, six years priate acknowledgment for her sympathy and ences, on which the prosperity of the country ful. Our patterns are made mostly of white before the date of his patent. This machine kindness, a sympathy which a woman can feel depends, took a nobler and a wider flight, and consisted of an upper and lower bar, adjustable and express, I promised that the first dispatch flourished in proportion to the protection and by screws, on which the silk was hung and by the first line of telegraph from Washington | encouragement bestowed on them. More that | pound of iron, or a little over, say one-tenth stretched until it was dry.

therefore, submit to a nonsult

GAS MAKING -- On the 3rd of July last, a case ing damp silk skeins will be of use to many that passed upon the electric wires on the first their growth, which at present they so imperfor the infringement of two patents was decided of our manufacturers. Silk in the piece has completed line in America." been so dried from time immemorial.

At the time the party which went from this city to witness and assist at the laying of the Newfoundland were lying at St. John's, a din-Morse was toasted and complimented as fol-

"The steed called Lightning (say the Fates,) Was tamed in the United States

'Twas Franklin's hand that caught the horse, 'Twas harnessed by Professor Morse.

To this Prof. M., who was present, made a very appropriate reply. He said:

of me in connection with the electric telegraph, Never. These 32,000 electric nerves run east, for it expresses the kindness, the generosity of west, north or south, and form the public heartyour own hearts. But, ladies and gentlemen, from what I may truly style the oppression of vallingthose in America, and difficulties have praise. It would be hypocrisy in me to affect been met and overcome far surpassing in magcallousness or indifference to the good opinion nitude any of those in our own country. The of my fellow men. I have not so superficial a electric wires extend under the sea of the Engentee, by it, claimed the making of gas from self-knowledge as not to be aware that there is lish Channel, the German ocean, and the Medseed or any other vegetable substance, by any something within this bosom ever ready to kin- iterranean. They pass from crag to crag on process whatever. This is fettering skill and ge- dle at the least spark of praise, a pride that the lofty Alps, and run through Italy, Switzernius for fourteen years in a way that the law would give utterance to the arrogant boast, land, France, Germany, and Russia. They will not allow. A more simple process might "Is not this great Babylon that I have built, will yet extend through the Atlantic ocean, and be invented for obtaining gas from seed, and by the might of my power and for the honor their circuit-"the ends of the earth." lightnings to go, and they go? Who gave the The defendant's counsel said that if this was | telegraph to the world? An incident in the the view of Judge Pollock, and the direction | early history of the telegraph is directlypertihe intended to give the Jury, he would tender nent to the answer to these questions. At two a bill of exceptions to have the opinion of a 'sessions of the Congress of the United States, fortunately but too deserving of the attention Court of Error. The verdict was then taken my petition for the pecuniary aid of the gov- they claim, and, if redress is not found at presas to this patent subject to the bill of excep- ernment to construct the experimented line of ent headquarters, the sooner a change of those tions, and the Jury discharged from giving a telegraph from Washington to Baltimore, to who preside takes place, the better. But what verdict on the first patent by consent of both test its practicability and utility, dragged its if it does, how is the evil already committed to slow length along, and the close of the session be remedied, - possession is well known to con-DRESSING SILK-On the 7th of July, a case of 1842 and '43 threatened a result as inauswas decided in London, at the sitting of the picious as the previous session of 1837 and '38. law, and, supposing a change of the presiding Nisi Prius, before Baron Martin, and a special I need not more than allude to the fact that in deities to be effected, what is to insure exempjury for the infringement, by J. H. Jourdain, of the previous session of 1837, I had expended tion from a continuance or repetition by anotha patent for dressing silk, granted to W. Hen- all the pecuniary means I possessed to sustain er, of the outrages of which you so justly comdrie, on the 11th May, 1845. When silk in myself at Washington while urging upon the plain? Does not the history of the past show skeins is boiled or dyed, and dried in a loose attention of Congress this then untried, this that like evils, though never to the same barestate on poles, it appears lusterless, and has a then generally esteemed visionary enterprise of faced extent, have, through almost every Adcottony surface. To increase the luster, it has an electric telegraph. Years were required to to be scutched, and wrung by a pin on what is put myself again in a pecuniary condition to called "a peg"-a horizontal wooden arm.- appear before Congress with my invention, and The improvement consisted in imparting a now I saw the last day of another entire sesbeautiful luster to silk skeins, by placing hanks sion just about to close, and with it the pros- character, and its Chief left without the right of silk on a machine having distended arms, pect of still another year's delay. My bill had to appoint those as his officials for whose acts adjustable by screws, by which the silk was indeed passed the House. It was on the calen- he is held responsible. stretched fully out in a wet state, and then der of the Senate, but the evening of the last placed in a stove room, and submitted to heat day had commenced with more than one hun- useless as long as the Patent Office remains until dry. The plaintiff had long been suspi- dred bills to be considered and passed upon be- a dependency of the Department of the Intecious that the defendant was using his machine, fore mine should be reached. Wearied with rior. Murmurings equally as loud and just and endeavored to obtain access to his prem- the anxiety and suspense, I consulted with one have before been heard, but with little or no ises, but could not for years, until the new pat- of my Senatorial friends; he thought the effect, and if present outrages be arrested, the ent act was passed in 1852. He then found chance of reaching it so small that he advised disease will again, ere long, break out, perhaps that the defendant was using a machine for me to consider it as lost. In this state of in a more violent form than ever. You do drying silk, consisting of three hollow metal mind, I returned to my lodgings to make my right, therefore, in attacking the root of the cylinders heated by steam, two of which re- preparations for returning home the next day. disease. Make the Patent Office a Bureau of volved, but fixed in their bearings, while the My funds were reduced to the fraction of a dol- Invention, as you propose, with its Secretary to third was capable of rotation, and of being lar. In the morning, as I was about to sit "enjoy all the advantages that the other chief drawn further out on its axis by a powerful down to breakfast, the servant announced that officers of the government possess," then, with screw. The damp skeins of silk were placed a young lady desired to see me in the parlor. a Charles Mason as Secretary, and an examinover two cylinders, and passed around under It was the daughter of my excellent friend and ing corps, etc., left to his appointment, the Inthe adjustable cylinder, and were distended.- college class-mate Henry L. Ellsworth, the stitution could not fail to be one of envy and These were then made to rotate until the silk Commissioner of Patents. She called, she admiration to the world. The space now pilbecame dry and was beautifully lustered. The 'said, by her father's permission, and in the ex- laged from the Office would soon be filled, open uberance of her own joy, to announce to me to clear daylight inspection, with useful mod the passage of the telegraph bill at midnight, els of both patented and unpatented inventions, On a cross examination, the plaintiff admit- but the moment before the Senate's adjourn- as prescribed by law. As a Bureau of Invento Baltimore should be indited by her. To is beantiful, as well as useful, and equally the for instance. A pattern that weighs 50 ounces Sir F. Thesiger, the plaintiff's counsel, upon which she replied, 'I will hold you to your offspring of inventive genius, would here find we say the casting will weigh 55 pounds. the production of this machine in Court, said word.' In about a year from that time the a home, a fostering care, that would serve to the case was so strong against him, that he line was completed, and everything being pre- refine the minds and morals of our people; was not prepared to answer it, and would, pared, I apprised my young friend of the fact. while the mechanic arts, which almost alone

[As the success of everyuseful invention encourage men of capital to assist in the intro- or, or treated as but of secondary value, or be duction of others, so every deceptive scheme | made the dirty tool of a political movement ? exerts an opposite influence. For these reasons, we have alwaysfreely expressed ourselves useful inventors. We early advocated the you will have less cause for complaint. A and we have witnessed its unparalleled suc- you please, but, ere next Congress meets, have cess in all parts of the world, with nearly as your petition ready; see that it fails not in the "I thank you ladies and gentlemen, most cor- telegraph wires on our continent. Was ever strings of 27,000,000 of people. Day and

## [For the Scientific American.]

### Encroachments on the Patent Office.

The letters and articles on this subject, which have appeared in your paper of late, are unstitute nine-tenths of right, as viewed by the amount being one pint for only eight miles ministration been-here a little and there a little,—perpetrated, till the Patent Office has been robbed of almost all its just rights,--its room applied to purposes totally foreign to its

Complaints as to encroachments, then, are A note from herenclosed this dispatch: 'What have made us superior to the savage, would an auburn color.

The method described of drying and luster- God hath wrought ?' These were the first words then find in the Patent Office a nursery for fectly experience.

Shall interests so important be trampled up-

Such has been done, and is now being done. Inventors, rouse yourselves for once from against useless novelties calculated to deceive your supineness, and each think and make it submarine cable between Cape Breton and the public, well knowing that they tended to his business to interfere. The Patent Office injure the prospects and interests of honest must have larger powers given it, and then claims of the electric telegraph to public pat- remedy has been proposed-see to it, and that ronage, and felt a sincere pleasure in doing so, earnestly, promptly, by convention or not, as much enthusiasm as the inventor. It is but number of petitioners, but let it be both long eleven years since the telegraph line of 40 miles and strong. You have no time to lose; evils in length, spoken of by Prof. Morse, was built, are being done that may be beyond the reach and now there are no less than 32,000 miles of of remedy soon, and your grievances are many. INVENTOR.

Washington, Sep. 21, 1855.

Gil Used on Railroads.

We are indebted to Edward H. Jones, master mechanic, for a table of the miles run and the oil used, by each engine, on the Albany and Utica division of the New York Central Railroad during the months of July and August last. The practice of publishing monthly tables of the amount of oil used on this railroad and the Erie, is working wonders. We published statistics of the use of oil on the Central Railload during the month of May last on page 396, last volume. On the above division of this road, there were 49,988 miles run in May, and 3,624 pints of oil used, being 13 4-5 miles run to one pint. During the past month (August,) 46,675 miles were run, and 2,904 pints of oil used, being sixteen miles run to one pint. The greatest number of miles run to one pint of oil was 23,75-100, by engine No. 15 (Freight,) D. Apps, engineer, and it is remarkable that this engineer run his engine in July 2,370 miles, and in August 2375 miles, using 100 pints of oil exactly each month .-This we call steady management. It is stated in this report, that the passenger and helping engines use more oil in proportion on account of the grade, than the freight engines-the run. One of the conditions to be taken into consideration in judging of the economy of each engine, is the amount of load drawn, or, what is better, perhaps, the length of trains. The publication of these reports giving the quantity of oil used, and the miles run by each engine, will call forth the unceasing vigilance of engineers to the condition of their locomotives, and also direct peculiar attention to their character. Only one engine-the Presidentwith inside connections is reported; all the oth ers have outside connections. During a recent trip over this division of the Central Railroad, we were most favorably impressed with the character of the best locomotives used on it and built at the Schenectady Works, under the able superintendance of Walter McQueen, M. E. They are powerful, beautiful, and skilfully constructed engines, and have a deservedly high reputation.

#### Discovery of a Dangerous Reef.

The discovery of a rock in the Gulf Stream, heretofore unknown, is announced by Capt. Tessler, of the American trading ship Pierre. The rock is stated to be in N. lat. 35° 14', W. long. 73° 21'. It lies in the direct path of vessels running between the Southern ports of this country and New York, Europe, &c. The head of the rock presents a surface of only 50 square feet, and rises but a few inches above the surface of the water. Lieut. Maury will have to send out a vessel to make special examination.

#### The Weight of Castings by Patterns.

MESSRS. EDITORS-Some time since, I think you said that a rule for finding the weight of a pine, commonly called here "hill pine;" each ounce of such patterns we call equal to one Chenango, N. Y. N.R. M.

A solution of muriate of gold will stain hair