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NEW YORK, DECEMBER 8, 1849.

Lectures on the Patent Laws. The lecture of George Gifford, Esq., Attorney at Law, upon the Patent Laws, now published in pamphlet form, covers an extensive area. After noticing the Patent Laws of foreign nations, the practice of some of them in granting patents for the introduction of improvements and discoveries, is condemned as "an inducement to those with no merit of invention, to steal the rights of others." There is some truth in this, but there are cases, wherein it is both wisdom and policy in a government to grant patents for the introduction of inventions. The late Commissioner of Patents, Hon. Edmund Burke, wisely mentioned a case of this kind in his last Report, to protect a person who had found out the mode of making that article so much desired and so long kept secret, "Russia Sheet Iron." A just compliment is paid by Mr. Gifford to the merits of inventors and the good they have done to the world. He looks upon the United States of America, as the future "grand laboratory of the would, commanding the entire front of the dominions of Science." We have the same hopes and the same faith, and the Smithsonian Institute is an evidence of what a great man, now dead, thought upon the same subject. Congress is justly denounced for not giving more attention to inventors and patent laws, and the laws of 1836 "bear evidence of hasty legislation," and the way in which the Patent Office is managed, meets with a scathing rebuke, because of the length of time before an application for a patent is examined. The patent laws do not confer a benefit upon an inventor, nor does a patent, but it is a bargain by the inventor to make his invention public, give it to the country, if he is protected in its full enjoyment for fourteen years. Nothing is more true than this, yet a patent is often given to an inventor, as it were a grant of charity. Mr. Gifford proposes an entire reformation of the Patent Office, and lays down his plan. We differ from him on almost every point, and our conclusions are entirely made up from practical data. We may notice this at some other time, and our views will, we have no doubt, meet with ac-

Superadd to this practice, the fact that the side, with wet plaster mortar made of clay; manner of doing it, he never would have put "CARBURETTED Hydrogen." new patent so issued, is to take effect, as to this covering is from 3 to 5 inches thick. About to silence any doubter, nor would he ever have New York, Dec. 2nd, 1849. causes of action subsequently accruing, from 12 feet of the top heap is constructed of small received the glorious title which Mr. Paine [We will allow the scientific points only, at the date of the original patent, and is to be stones or stone chips, and is left uncovered unjustly gives him. deemed evidence of the existence of the inven- til the fire is fully started, then covered over I have no wish to enter into any controverissue, to be discussed in future papers, if brief, tion as far back as the date of such original, with dry dirt to keep down a two rapid comsy, nor impugn any man's motives, I only between Mr. Paine and the author of the above. and you have a combination of things, the bustion. The clay coat is put on before firing want more light; and as Mr. Pame has so of. Cracking of the Glass of a Clock-face. joint operation of which is truly alarming, and is kept plastered over close during the ten come before the public, heralding with the We have received the glass of a clock-face opening a door for foul fraud and deception, trumpet of the press his grand discovery, and burning. The outside courses of stone are set from S. Whitcomb, of Natchez, Miss., with a and resulting in the most glaring injustice I, poor mortal, not getting any more lightfrom on edge in an oblique manner, the direction of request, if we can, to explain the reason why and the most intolerable outrage upon the their inclination being changed each course, him at all, I thought that as an humble memit was all chipped upon one of its surfaces .rights of men and community, ever passively which form a zig-zag appearance. The outber of the public-an American public, which The surface is covered with blisters, which endured." never likes to go things blind, that my letter side courses are laid with care, taking stone of were found on it one morning after a very cold By an ex parte allidavit, he states, "any would have been the means of at least getting about the same size, but the interior, after the night. We can only account for it upon one vile vagabond may gather up some old patent, some satisfaction, not private, but public, but first 2 or 3 courses, is filled up with stone of condition, viz., that moisture was collected on useless skeleton, and appropriate to himself all all sizes, to the extent of 80 pounds, but each I have been disappointed. the glass, which being congealed by the cold, It often happens, and I have proved it by that others have produced for the last fourteen coat of coarse stone is filled up and levelchipped it. years, and also to extend the bounds of his old led over with small stone of more uniform size myself, that inventors honestly deceive thempatent over all the new territory discovered. N3 See a letter from our Washington Cor--say as large as the first, and then the selves. In answer to Mr. Paine's objection after the date of his original patent, and to course of coal is strewn over the smaller stones about the Protection of the Patent Law, I can respondent, on the second page.

of the existence of such things." By this system of re-issues, he asserts that old patents for useless inventions are set as traps to ensnare meritorious inventors and harrass the public, and are resuscitated by "fraud and corruption, and sprung upon the community to take from citizens their prosperity and rights." It is recommended that no claim be granted in a re-issue, except such as clearly appears in some form in the original patent, and that no re-issue be allowed after the patent is one year old. The above is strong language, and knocks hard at the door of public opinion. We understand the practice of the Patent Office to be, to grant no claim on a re-issue, except for something exhibited on the model or original specification. If such is not the case-if 'the above statements of Mr. Gifford are correct, the evil is a foul blot upon our Patent Office practice. But we want facts-cases-to base any arguments we may use to assist in the reform demanded in our Patent Laws. Who will furnish us with such arguments ?

Lime Burning with Mineral Coal.

We have received from a valued correspondent, of Lebanon, Pa., giving the following account of burning limestone in the fields with mineral coal, which must be of interest to our agricultural readers. This mode is pursued by farmers advantageously in some parts of Pennsylvania—the lime-stone being burned in heaps in the field, where it is quarried, or where the lime is to be used ; 30 bushels of coal to 100 of limestone, is used, the two being interstratified for burning.



ceptance by every person interested. An inhydrogen gas during combustion does not pro-There are flues dug in the ground, and the that every working man could now use gas crease of feesfor re-issues is advocated, and an duce a white but a bluish light, and it requires above cut is a transverse section, showing the as a cheap substitute for oil, camphine and amount equal to the original fee, for additional carbon mixed with it to produce a good white arrangement. These heaps or piles may be candles. If Mr. Paine does this for our workimprovements-\$30 instead of \$15. The syslight. Now Mr. Paine has given publicity to made of any desired size : their base is usualing people, he will ever receive my heart-felt tem of re-issues by the law of 1836, from its the doctrine that he decomposes water by magly 10 to 15 feet wide, and are carried up in thanks and profound respect. It would gladlooseness, is called "oppressive and tending netism, and by burning the hydrogen of the somewhat of a gothic arch shape, to a point or den my heart to see Mr. Paine come to this to legalized robbery," and we are startled with water he produces a cheaper and better light ridge, so as to make the height about the same city and offer (as by his own profession he as the base. The quantity of coal used is in than any that ever has been produced before something like a revelation of which we were no doubt can) to supply the public at one half The South Sea philosophers who doubt this entirely ignorant, and regarding which we conthe proportion of about one ton of coal to 100 the cost of our gas at present, I can confidentsider it to be the duty of the Patent Office to are Davy, Lavoisier, Liebig, Farrady, Rose, bushels of limestone-if the coal is fine and ly state that his offer, if properly endorsed, set the public right on the matter, if it is not Ure, and men whese names stand far above slaty, a somewhat larger proportion is used. would at the present moment meet with prompt so, and if it is true, the sooner the Patent Of-Mr. Paine's contumely. The length of the piles are made to correspond attention. fice shuts up one door, all the better for the Since Mr. Paine sees fit to keep his alleged with the quantity of lime desired at one time I am perfectly willing to be dubbed with the public. Mr. Gifford states that under the condiscovery mum, will he be so good as to state say from 20 to 100 feet in length. The ground title of Carburetted Hydrogen. It is such a struction of the law of re-issues, "the praccandidly the chemical principle by which the flues which are about 12 or 18 inches square, beautiful and useful gas, that it is no shame to tice of the Patent Office in granting re-issues white light is produced by the burning of hyare extended about 3 feet out on each side to wear it for a moment, but I preferred Gior, has been, not to limit the extent of the claim admit the wood which is burned in them to drogen. No man will get honor for merely as the most appropriate, and had he been as saying I can do and have done such and such of the new patent to the invention appearing start the fire and ignite the coal in the heap, classical as he is captious, he would not have in the original patent, or to be inferred from which usually takes 4 to 6 hours, and about a a thing. Had Franklin brought his key to run against his own lance. Until a better and the specification annexed thereto, but to enhalf a cord dry wood to a 1000 bushels of coal. Philadelphia and exhibited it charged with cheaper gas is produced, I therefore will, out electricity, saying that he "had drawn light large it on ex parte evidence to any additional After the pile is constructed it is plastered over of respect to Mr. Paine, subscribe myself, extent. to within about 18 inches of the top on each ning from the clouds," without stating the Yours truly,

Scientific American swallow up what others have invented, put into use, and patented, long before he dreamed courses are of about a uniform size of half a swallow up what others have invented, put before another course is added. The first three give the names of many who have become rich brick and covered with a larger proportion of coal than the courses higher up, the depth or thickness of which is progressively increased the courses are made thicker, so are stone used of larger size-but the coarse stone are to be leveled up and covered with smaller stone to receive the strata of coal.

> The ground flues are covered with stone, which are large enough to reach across and lap 4 to 6 inches on each side of the ditch, or the stone may be projected from either side to meet in the middle of the flue-having sufficient bearing on each side of the flue or ditch to keep them from tilting into the flue when laid. Over these stone, and throughout the whole base of the pile is laid a covering, say 3 or 4 inches thick of dry wood, and on this is about 2 inches in depth of mineral coal spread over, then a course of limestone, say size of half a common brick. Coal and limestone are thus alternated for 2 or 3 courses, then the thickness of each course is gradually increased as we raise in height.

Paine's Hydro Electric Light.

MESSRS. EDITORS :- I perceive by the last number of the "Scientific American," that Mr. Paine has been very much pained by my letter in No. 8, so much, indeed, that he finds himself constrained to resort to a very ingenuous method of fighting my arguments, viz. by taking refuge behind a saying which he attributes to Franklin, but in regard to its application he pleads ignorance, merely supposing that the remark of the "Lightning Bottler" must have been called forth by such an attack as I made upon Mr. Paine. I made no personal attack upon Mr. Paine : I used the most respectful language, and if he compares my letter with his own, he will (as every person must) admit that my letter was general--his personal. If I would abuse an inventor " for his invention," I would abuse myself, as I happen to belong to that fortunate, and yet unfortunate class. Mr. Paine avoids meeting my deductions from well established facts in science. His rigmarole about the four elements, and about the South Sea philosopher with his calabash, would have suited a school boy better than a man, to adduce as argument against my objections. I stated in my former letter, and I will state it again, that

by their patents-through law and opposition, and I can, give the name of one, at least, who would have been rich, had he patented his invention, instead of keeping it secret, for it was to 15 or 18 inches in the body of the piles. As patented by another, who became rich by it, and the first inventor was prevented from using his own discovery.

> There have been so many electric lights brought from time to time before the public. that Mr. Paine should have some feeling with the public, who have been so often deceived.

> Mr. Paine adduces one reason, and one unkind objection, for not answering my remarks candidly. The reason is, that if I do not know that water "is a simple substance, and oxygen water held in solution by positive electricity, and hydrogen by negative," and the objection is, that if I do, "my remarks are insulting and abusive." With great respect I will state that I am ignorant of water being a simple substance, and as for the rest which follows, it is puzzling to me. My remarks, therefore, were not abusive, far be it for me to abuse a gentlemanof such profound chemical knowledge.

> I would state, however, that I am perfectly capable of proving that water is not a simple substance, and that the two gases are united and held together by a very different law from that which Mr. Paine lays down. If he chooses to discuss this point I will undertake to prove by unquestionable facts and produce the authority of the most able living chemists, and the most able living Electrical Chemist, that hydrogen alone does not produce a good white light, that it requires a mixture of carbon in some shape; and that water is not a simple substance. I have indisputable established facts "to base my review upon,"-I want Mr. Paine's new facts to controvert what every good chemist knows to be true.

> Mr. Paine finds fault with my name, Gior," and insinuates that I have an interest in some stock or gas company. I will state that I have manufactured gas for public combustion. more than ten years ago, but I have not a cent's worth of interest in any stock or company whatever. Nothing would give me greater pleasure than to see our city supplied with gas so cheap, that all our present companies would become extinct-not that I rejoice at the downfall of any company of men, not that I love them less, but that I love my whole countrymen more, and I would to God

Scientific American.