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#### THE PLOT AGAINST PATENTS.

of our readers to the remarkable series of bills introduced in hold their patents, or prevent them from recovering dam-Congress for the purpose of breaking down the patent laws, ! ages against infringers, would be disastrous to the country and also to the extraordinary attitude exhibited in the House of Representatives in respect to patents, by the passage of people. two of these bills by immense majorities. Such of the newspapers as share in the Congressional feeling of hostility to the holders of patents are found to be owned or feated. Let every patentee, every inventor, every manucontrolled by railway officials.

The general, all-pervading impression among the people is that nothing has so greatly contributed to the prosperity of the nation as our excellent system of patent laws. How it is that Congress, at this late day, has been brought around them not to sacrifice their interests and property in this into its present hostile attitude appears to most persons unaccountable. It has been accomplished, in all probability, by a very cunning and adroit system of operations pursued by the combined railroad companies. The aggregate amount which they are annually obliged to pay to the inventors and patentees of new inventions authority of a general law of the State, has lately mapped rises to hundreds of thousands of dollars every year; out and granted to one company in the city the routes for and naturally they reason that, if by hook or crook they no less than sixty-six miles of new railway tracks within the could nullify the patent laws, their profits would be in-municipal limits. These lines are torun up-town, down-town, creased and great annoyances overcome. For a num- cross-town, in fact in all directions. The commissioners ber of years they have made efforts in this direction, but appear to have legislated on the supposition that New York so far without much success. For a long time they have had city is in great present need of more rapid transit lines, and their combined patent bureau in operation, under which they will by its rapid growth soon require extensions. These make a common defense against paying patent royalty for wants, present and future, are amply provided for by the any patent, when there is a chance to escape. They now commissioners so far as routes and tracks are concerned; have a head center at Washington, through which, this year, but we fear their judgment is ill-considered in requiring, they are making a desperate effort to carry laws in their as they have done, that the main lines of these new roads shall favor, and pull up all patents by the roots. They have be worked on the cable system. What the people restuffed the grangers, making them to think that inventors, quire is rapid transit; but the cable plan is in reality only a who are really their best friends, are their enemies; that slow form of slow transit. All the cars must run at the the charge of ten dollars for using a patent drive well, which same speed; if one train or one car is detained, the speed saves them two hundred dollars, or the cost of an open well, cannot be increased so as to make up for lost time; if the ation in all commercial places throughout the world. Address MUNN & is a hardship; that payment for patents is nothing but robberv. and in this free country can no longer be tolerated bery, and in this free country can no longer be tolerated.

With falsities like this the railroad agents have induced farmers to ask Congressmen to vote down the patent laws. They have drafted various forms of adverse patent bills, and cable pipe. caused them to be sent from different parts of the country, to different members of Congress, purporting that these bills represent the feelings of large numbers of their constituents, and asking that the same be introduced and passed. This system of deception has been so extensively worked up and had its effect in the House of Representatives; and in that PLEMENT of this week, page 6847. body there is to-day actually a large majority of members who are willing to encourage the false idea that new inventions and new industries are abane to the people instead of a ly for hilly towns, it has proved very advantageous; in fact, blessing; and these members are now ready to execute the it will work very well anywhere and in any city where wishes of their railway masters by passing laws that will give relief from paying further tributes to inventors.

edly increase the dividends of the railway people for the ent motor, powerful, but fast or slow as needed, and sustime being, will also deal a terrible blow to industries in all ceptible of use in the streets with the same facility as parts of the country. Every establishment in the land that horses. manufactures under a patent, all workmen employed in such concerns, two hundred thousand patentees and their families, all must now have their property struck down or damaged to gratify the railway kings.

out against patents; they manipulate Congress through and fever had occurred. The point was this: Did the exfalse bills and deceptive representations, and that august istence of the pond cause the fevers? body is unable to hold its own against them.

road schemers want. Here is the full text of the little billin- that is, to swampy lands and (except in the tropics) to the the House, by which the life of all new patents will be re- it. It is possible that a single case may have occurred ocduced from seventeen years to five years:

the United States of America in Congress assembled, That that year a most wonderful onward movement to the east

tor from Indiana, and is now before the Senate, its passage except, possibly, a few in Windham and New London expected every day. We give the full text:

fense to any action for an infringement of any patent, or any over into Massachusetts at Lenox (the place referred to by suit or proceeding to enjoin any person from the use of a pa- Dr. Griswold) and Lee. It has already invaded the sacred tented article, that the defendant therein, or his assignor, precincts of Boston, and is in high march for Nova Scotia purchased the patented article for use or consumption, and and Newfoundland, for all that we can tell. not for sale or exchange, in good faith and in the usual course of trade, without notice that the same was covered by a patent, or without notice that the seller had no right to sell can be traced. Ponds and swamps have always existed of such article; and in all such cases notice received after such | natural formation, and artificial ponds have been formed, purchase shall not have the effect to impair in any way the dating back to the first settlements, but they have been right of such purchaser as absolute owner.

come free for use by railways and the public at the end of of marsh fever, the epidemic has just as freely selected its five years.

If Mr. Voorhees' bill passes, the free use of all existing patents is at once taken from the patentee and given | fulness, acknowledged the tread of the invader in 1880, and

It seems to us that the passage of these bills, or of any For several weeks past we have been calling the attention of the other bills which impair the rights of inventors to and destructive to the interests of a large portion of the

> There is at present writing a strong probability of their passage. But if effort is promptly made, they can be defacturer, every workman, every farmer, every individual, who believes in the maintenance of home industries and the encouragement of the useful arts, write letters personally, at once, to the Senators and Members of Congress, urging wanton and unjustifiable manner.

Read the letter of Mr. D. L. Carver, in another column.

#### CABLE RAILWAYS FOR NEW YORK CITY.

The Rapid Transit Commission of New York City, under cable breaks, or a cogwheel gives out, all the cars, on both tracks, for the entire line must stop; all the streets through which the cables run are rendered dangerous to horse fiesh by liability to tearing off shoes by wedging in the slot of the

The system has a variety of other objections. With a view to the presentation of these, our reporter lately interviewed Mr. F. C. Crowley, a street railway engineer, constructor, and operator of long experience, who has made a very careful examination of the Chicago cable roads. The manipulated by the railroad head center, that at last it has report, which is quite interesting, will be found in our SUP-

After all that can be said by way of objection to the cable system, it must be admitted that in some localities, especialrapid transit is not wanted. But for the streets of New York, it would seem as if a better and less objectionable The worst is that these hostile laws, while they undoubt- system would be the employment of some form of independ-

# MALARIAL FEVERS.

The case on trial described by Dr. Griswold in the New England Medical Monthly of August 15, referred to a pond They wave their wands, and their newspapers cry in Berkshire County, Mass., near which many cases of agus

The disease has been in time past by most writers reck-We will not repeat again the details of all the hostile bills oned a marsh fever, and it was commonly believed to be now before Congress, but will only select two, either of limited to regions and to seasons where vegetable matters which, as soon as passed, will accomplish all that the rail- were undergoing decomposition from moisture and heattroduced by Mr. J. A. Anderson of Kansas, and now before autumnal months. New England was formerly free from casionally in the extreme southwestern part of Connecticut. Be it enacted by the Senate and House of Representatives of but practically ague was unknown there until 1860. In

II. ENGINEERING. MECHANICS. ETC.—A Scientific City Built by the Pullman Co.—Laying out a city.—Mr. Pullman's account of the enterprise.—A church offered for rent.—No corporate government.

—Opinions of the enterprise.—Bronze.—Several figures.

—Sagnes' Machine for Making Moulds for Objects in Copper and Melneax's Compressed Air Dredging Apparatus.—3 figures.

—Bronze.—Several figures.

—Bronze.—Several figures.

—Bronze.—Several figures.

—Bronze.—Several figures.

—Bronze.—Several figures.

—Bronze.—Several figures.

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—The Cost of Steam Power.—With tables giving estimates of cost of greating the same.

—G846

—The Hull and Barnsley R.R. Swing Bridge.—Several figures.

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—The Cost of Steam Power.—With tables giving estimates of cost of greating the same.

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—The Cost of Steam Power.—With tables giving estimates of cost of greating the great same and the north commenced, and the north commenced and the north commenced, and the north commenced and the nort Counties. Running up the Housatonic Valley, it reached S. 1,558. Be it enacted, etc., That it shall be a valid de the northern line of the State in 1877, and in 1878 it crept

This progress is astonishing, for no change has taken place in the surface or condition of the country to which it harmless. Nor can we say that they have anything to do at If Mr. Anderson's patent bill passes, all new patents be- the present time with the evil. For, disregarding its name victims on the hills as in the swampy valleys. Litchfield, "a city set on a hill," which had always boasted its healthhe had come to stay, to their great disgust. And disregarding also the fact that according to all previous theories a seventeen years to five. And even for that time the value no right to it whatever, yet the sale shall be valid, and this "good white frost" ought to destroy the malarial poison, is to be destroyed by the ingenious devices to protect inthe present epidemic has often maintained its activity in the fringers which other bills comprise. very dead of winter. We are forced to conclude that the true cause, or causes, for the affection, and for its present patent pay all the costs of prosecuting an infringer, even eccentric northeastward march, yet remain for research.

etc., may of course cause much injury to health, but there when he purchased the thing; and finally, of permitting an defendant therein, or his assignor, purchased the patented is no evidence that they ever produce ague.

### THE HOSTILE PATENT BILLS.

Sun. It is as follows:

#### "ATTACKING INVENTORS

owners lest great and very injurious changes in the existing justice, just the same as would one whose patent had never and sell it to a third man; in order to save your title you patent laws should be effected during the present session of been put to test. All these things are calculated to amaze must hasten and notify the purchaser, before he buys, that Congress. Over twenty bills, most of them bad, have been any just and intelligent person who will stop to think of it is stolen property; for after he has purchased it he is the introduced to alter these laws. One of the most strik- the moral right of the patent owner to his property, and of "absolute owner," and you will be barred forever after; and ing reduces the life of a patent from seventeen years to five. the impolicy of depriving the community of the great bene- this is precisely what your bill proposes to do with invent-Another empowers juries to fix the license fees to be paid by fits that accrue to the country from the inventor's genius, of ors and owners of patents. users of patent infringements, without regard to the patent which we shall certainly be deprived if our patent system owner's valuation of his property right. Another enables is to be thus destroyed." any user of an infringement to evade punishment by the simple plea that he did not know that the thing was patented or that the person selling it to him had no right to patent it. Another authorizes the user of an infringement to continue its use where it would be of the greatest benefit to him and construction of the new cruisers have called forth a large notice that I may give him after he has purchased will avail most injurious to the owner of the patent, notwithstanding amount of criticism from various quarters. Among these me nothing. In conclusion I would say that I have often ample legal notice after his purchase that it was an infringe- is one by N. B. Clark, U. S. N., which was published in the heard of wickedness in high places, but I think this is the

"Then we have bills to compel the owner of a patent re- sistency. peatedly declared valid by the United States courts to give bonds for the payment of costs before commencing suit author on the score of the form given to the deflecting the President, to defeat the measure, I remain, against an infringer; to make the plaintiff in such suits pay shields, which in the cruisers now building extend from a all costs if he does not recover damages to an amount seldom reached in such prosecutions, except where the defend. ant is a vender or a fraudulent manufacturer of the infringe- is that of three intersecting straight lines; the center being ment; and to make the plaintiff liable not only for the costs, horizontal and the other two sloping toward the sides. The of suit, but for the payment of the defendant's attorney author argues that if this shield were a continuous curve, when these and other ingenious devices to thwart justice starting at the same points, and having the same rise as the chouse him out of an award of damages.

"There may have been some instances of injustice to innocent users of infringements through the peculiar methods of fact that the angle at which a projectile could strike would certain patent owners, either in securing their supposed rights or through the vexatious uncertainties affecting contested ownership of patents. The extent of such injustice, however, has unquestionably been greatly exaggerated. Among the other advantages are the reduced weight, the and the arts, and it was not until 1852 that he began to de-Even at the worst, it is in a very small ratio to the patent increased room afforded for the boilers, together with ininterest of the country as a whole. If the evils alleged exist creased stiffness of the entire ship. in any degree, they may certainly be remedied by a less radical process than the destruction of all protection for remembered that the single gun turrets are almond-shaped, property right in patents. To make laws of the proposed the muzzle of the gun projecting at the sharp end. With bills would annihilate the owners' benefits on a great number of patents, ruinously unsettle the values of all not made direction of the gun would glance off without doing any absolutely worthless, and affect injuriously all manufactur-! damage. ing interests dependent to any extent on patented processes or machinery.

"It is surprising that three members of the Senate Patent capital are invested in patents, and in which the prosperity to be removed. He would therefore have the back of the of nearly the entire population is intimately connected turret removed entirely, leaving the rear free, or only proowners, should permit such measures to pass through their hands without careful scrutiny and strenuous opposition.

"These are questions in which the honor and material prosperity of the nation are opposed by the interests of petty rogues who wish to steal the fruits of others' brains."

## [From the New York Star:] "LEGISLATION ON PATENTS.

"It is a singular conception of right in property that animates a considerable number of the members of the present posed affecting patent interests. A patent is virtually a contract between the Government, representing the whole people, and an individual who has something, of his own invention, creation, or discovery, that would be of practi- AN OPEN LETTER TO THE HON. D. W. VOORHEES, SENATOR IN cal value to the people were it known to them. In consideration of his making known, for common benefit, the Hon. Senator D. W. Voorhees: results of his study, genius, or skill, he is guaranteed a re-. Dear Sir: In the matter of your bill, No. 1,558, for the which before was his alone, he being given the right to con-| standing as to my rights in this patent business. trol that use so as to reap pecuniary benfit from it. After! I have had five patents granted to me, and on my part I

time sufficient. "The first principle of value in a patent, as in any other | for seventeen years. form of property, is stability in possession-protection by stolen than almost any other property, is actually least of all protected, and were the bills now before Congress to become

laws, would be practically deprived of almost all protection. "It is a notorious fact that inventors and patent owners, as to their own use. a rule, make nothing on the first five years of the lifetime of a patent. During that time they are mainly occupied in presentatives, and is now before the Senate, and is being fic American Supplement for 1883 may be had at this expensive business—and in introducing their inventions to most solemn protest against the infamous fraud. popular knowledge. But one of the bills now pending in the House proposes to reduce the lifetime of a patent from substance that a man may sell my property, although he has may be had as above.

"The preposterous conceptions of making the owner of a infringer to continue his use and enjoyment of the infringein courts of competent jurisdiction, it is proposed shall chaser as absolute owner." "Serious apprehension is felt among inventors and patent give bonds before he can begin suit to bring an infringer to

# WATER LINE DEFENSE AND GUN SHIELDS FOR CRUISERS.

Journal of the Franklin Institute; it has the merit of con-

As regards water line defense, objection is raised by the distance of four feet below the water line at the side to one foot above it at the center. The form given to this shield other, it would have several advantages. The principal among these is the increased protection offered, due to the be more acute in the curved than the plane-sided shield. This is especially the case when the ship is inclined to one

Taking up the gun shields of the new cruisers, it will be this form, a projectile striking the turret forward in the

But since this form of shield (with the proposed thickness) is only effective when the gun is pointed toward the direction whence the projectile comes, the author argues that Committee, who represent States in which enormous sums of that part of the shield which is useless for protection ought with the maintenance of the rights of inventors and patent tected sufficiently light to exclude flying splinters and bursting shells. This would reduce the weight considerably with practically equal safety.

In discussing the engines, the author advocates the adoption of emergency power, since by so doing considerable reduction in the weight of machinery would follow. He proposes to do this by two sets of engines, which can be connected or thrown out of gear with the propelling appliances societies. In 1874 he was elected a member of the Academy at will; under ordinary circumstances, when high speed is of Sciences. not essential, one of these light, fast running engines would he in use, whereas in emergency the other would be con-Congress, as demonstrated by the measures they have prolocomotive type would give the ship the desired velocity.

# Breaking Faith.

CONGRESS FROM INDIANA.

ward in the form of an exclusive right, for a term of years, purpose of amending the patent laws, I feel myself persongenerally southwest of the Mississippi, and north at the to whatever profits may accrue from the common use of that ally interested, and would like to come to a definite under-east, with remarkable contrasts of temperature in localities.

the expiration of that term, the patent—except in a small have paid Government fees and complied with all the con- North and South Carolina, Georgia, and Alabama. The percentage of cases in which there is reissue—becomes free ditions of the law, and in consideration of this the Governto all, the presumption being that his reward is by that ment has virtually agreed that I shall have the exclusive million dollars, with about 1,000 killed and a great number right to manufacture, sell, and use the invention patented

Now, I understand that you propose without my consent tic animals in great numbers. law against theft. But the patent, though more liable to be to repudiate the contract; and while I supposed that the Government would stand by me and protect my rights in this species of property, you seem to be taking sides with TIFIC AMERICAN SUPPLEMENT, who may desire to have those who by fraud or theft will appropriate my property

fighting patent thieves in the United States Courts—a very vigorously pushed by Senators. I hereby wish to enter my office, or obtained through news agents.

thief can convey a good title. The following is the text of your bill, which wears unmistakable marks of fraud on every syllable of it:

"That it shall be a valid defense to any action for an inthough he may win his suit; of expecting him to prove fringement of any patent, or any suit or proceedings to en-The pollutions of streams by the refuse from factories, guilty knowledge on the part of the user of an infringement join any person from the use of a patented article, that the article for use or consumption, and not for sale or exchange, ment even after he is duly informed that he has no legal in good faith, and in the usual course of trade, without noright to do so, and to use it even in manufacturing process- tice that the same was covered by a patent, or without no-One of the ablest articles that we have read in regard to es, the license fee to be fixed, not by the patent owner, but tice that the seller had no right to sell such article, and in various patent bills was recently published in the New York by a jury—all these are in the proposed bills. The owner all such cases notice received after such purchase shall not of a patent that has been over and over again declared valid have the effect to impair in any way the right of such pur-

Now, suppose I should steal your jack knife or your horse

You say, if the man purchase the patented article for use, that will clear him; but that is just what I own—the use of the article; or if he purchase "in good faith," that shall make his title valid, but how am  ${\bf I}$  to prove that he did not purchase in good faith? Or if he purchase it in the "usual The plans adopted by the Naval Advisory Board in the course of trade," he becomes the "absolute owner;" any most flagrant attempt at legalizing theft of anything that has ever transpired in the Congress of the United States.

But hoping that there is wisdom enough in the Senate, or

Respectfully,

D. L. CARVER.

Hart, Mich., March 10, 1884.

#### Th. Du Moncel.

It would appear that the column of obituary notices of scientific men was becoming too much of a permanency in our paper when week after week it heralds the demise of such men as Siemens, Guyot, Smith, Balfour, etc. Now we are under the painful necessity of announcing the death of the Count Theodore Achille Louis du Moncel. This distinguished electrician was born in Paris on March 6, side, which would be the case when rolling in heavy weather. 1821. He spent his early days in the study of archeology vote himself to electricity. So little was known of this obscure phenomenon of nature at that time that the field for study was immense, and it required a peculiar perseverance and an unswerving purpose to make this branch a special study. He was the inventor of numberless electrical contrivances, and he contributed in no small degree to the advancement of knowledge, practical and theoretical, in this particular direction.

His work on the application of electricity went through three editions, and his Practical Treatise on Electricity was published at the time of the Exposition of 1878, and gave quite an impulse to the movement in electricity started at

Later, he published works on the telephone, electric lighting, and electricity as a motive power. His works were written while he was serving as editor of La Lumiere Electrique.

In 1860 M. Du Moncel was electrical engineer of the telegraph wires of the city of Paris, and he held this office till 1873. He was elected an officer of the Legion of Honor in 1866, and belonged to a number of scientific and literary

We offer our contemporary, La Lumier e Electrique, our sympathy at this her loss.

# The Remarkable Storms of February 19.

The Signal Service Bureau has issued a series of charts showing the course of the terrible storms which swept over so large a portion of the country on February 19.

The central area of barometric minima stretched from Dakota in a great bend over the southern end of Lake Michigan, and thence to the north of and far down the valley of the St. Lawrence. From thence the wind was The storm lasted from about seven o'clock in the morning until after midnight, being most destructive in Virginia, loss of property thereby is placed at between three and four severely wounded. Some 10,000 buildings are said to have been destroyed, with horses, cattle, hogs, and other domes-

NEW subscribers to the Scientific American and Sciencomplete volumes, can have the back numbers of either paper sent to them to the commencement of this year. A law to this effect has already passed the House of Re- Bound volumes of the Scientific American and Scientific

All the volumes of the Scientific American Supple-The law which you now contemplate passing provides in | MENT from its commencement, bound or in paper covers,