have been so securely guarded that no well informed bur- the picture. where the electric alarm has been used.

not realize that they were neglecting to take "all reasona- part of the wheel showing a perceptible movement during and ignorance, from which the light of science has emancible precaution" to insure the safety of the property in their the two-thousandth part of a second of the exposure of the pated us. care. It is, we say, but an additional evidence that men plate. The upper ends of the spokes are blurred, and the not scientifically educated are very apt to lack an adequate rim likewise, thus giving a physical demonstration of the in inventions, and whose "retrograde notions" are now becomprehension of the real conditions of modern life—what i truth which mathematics establishes. science has done and is daily doing to change the conditions to which life and property are subject. The incessant advances which science and invention are making to bring even the occult powers of nature into subservience to national Congress on Industrial Property, held at Paris man are, it is true, so multitudinous and rapid that it is September 5th, and following days. The congress was auc cause it would personally inconvenience them. hard for the most studious to keep pace with them. It is thorized by a decision of the Minister of Agriculture and true also that the best trained minds are apt to lose their Commerce, under date of May 12, 1878, and the preparation alertness with age, and settle down into grooves out of which was zealously undertaken by able men. An elaborate pros. along in the same rut, and believe in no other than the it is hard to get. But that only makes it all the more ne- pectus was prepared containing questions proposed for discessary for those in positions of great trust, like bank directors, to have in their employ some one who makes it his as will be seen by the resolutions which were adopted. The business to inform himself some one whose scientific bias question of preliminary examinations has been discussed ciate an improvement in their trade, are not honest enough leads him to look for scientific aids, and whose scientific with great heat, but we are not yet informed as to the retraining inipels him to run counter to tradition and that easy- sult. The tendency seems to be toward the adoption by and who either openly set him at defiance, or try to escape going confidence in what once sufficed, which, in the case of all European countries of a preliminary examination modthe Manhattan Bank, led to its easy plunder. Burglars are eled after our own, as a protection to the inventor himself. quick to avain themselves of scientific appliances. They The committee of organizations consisted of M. Renouard, damages to the persons they have wronged. It is this class must be met and vanquished in the same field.

tection of any unwarranted entrance and the complete re-neers; and many manufacturers. porting of any burglar's movements.

A GRAND WORLD'S FAIR IN NEW YORK.

A numerously attended meeting was held in this city, Octo ber 31, for the purpose of initiating a movement for a world's fair to be held in New York in 1889. As expressed: The congress met in both the morning and afternoon; in by the call, which was signed by many prominent manufacturing and commercial firms the object of the meeting namely, patents, trade marks, or designs and models. In was in full, to consider the propriety of suggesting to the Mayor of New York that delegates from all the States be invited to assemble in this city on the 30th of April next, that bers were thus enabled to concentrate their attention on the being the ninetieth anniversary of the inauguration of Washington as the first President of the United States, and the establishment of constitutional government, in order that the proposition to hold a great exhibition of the industry of all nations in the city of New York, in the centennial year of that event (1889), or sooner, might be maturely considered.

At the meeting it was unanimously resolved, "That there be appointed an executive committee of ten, with power to add to their number, who shall take into consideration the subject for which this meeting was called, to determine New York, and authorizing such committee to take such reciprocal protection of literary and artistic property. action in the matter as shall be deemed advisable?

A Mexican Exhibition

organize a special exhibition in that city at a conveniently publish a periodical official journal. early date. The exhibition is to be confined exclusively to rect auspices of the Mexican Government.

Mr. De Zamacona, who has the credit of suggesting this merchants and manufacturers to extend the export trade of tion, and not be added to it. the country. At any rate the friendly spirit shown by Mexico in thus limiting the exhibits to the productions of the United States and Mexico, ought at least to be met in a corresponding spirit; and the best way to show that would be by making a special effort to have our country, its resources and industries, adequately represented.

Australia to have a World's Fair.

The Department of State has been informed by the American the subject of a special and complete law. Vice-Consul-General at Melbourne that it has been decided will be the greatest exhibition ever held in the Southern to their respective colonies. Hemisphere. The Vice-Consul-General suggests that American inventors, for their own protection, should take out patents in each of the Australian colonies, each colony having a different patent law.

THE MOTION OF A WAGON WHEEL.

by Muybridge, of San Francisco, furnish the first visible indomitable spirit of research and improvement which is

THE PARIS INTERNATIONAL PATENT CONGRESS.

cussion, some of them rather metaphysical than practical, Senator, Member of the Institute, etc., President; M. Bo., of opponents who cry out most loudly against the patent It may be observed in this connection that the application zerian, Senator; M. Tranchant, Member of the Council of laws. of the telephone to the list of electrical safeguards presents State, Vice-President; Count Maillard de Marafy, President a very promising field for experiment and invention. Ware- of the Consulting Committee on Foreign Legislation of the houses, vaults, even the interior of safes, might be secretly Manufacturers' Union; MM. Pataille, Huard, Pouillet, Renand securely connected out of business hours with police du, authors of works on industrial property; Tusca, Memheadquarters, in such a manner as to insure the certain de ber of the Institute, President of the Society of Civil Engi-chiefly of persons having no real practical knowledge of the

About 300 persons, including members from nearly every state in Europe, were represented at the first session of the congress. From the United States were present Messrs. A. Pollock, of Washington, and Francis Forbes, of New York city. Mr. Pollock was elected one of the Vice-Presidents. the morning, in three divisions, according to the subject, the afternoon the questions presented by the divisions were! debated and passed on by the whole congress. The memdivision which particularly interested them.

The following resolutions had been voted on and agreed to up to the time of the close of our advices:

1. The right of inventors and authors in the domain of industry, over their works, or of manufacturers over their marks, is a property right; civil law does not create it; civil law only regulates it.

2. Foreigners ought to be assimilated to citizens.

3. The stipulations of reciprocal guarantee of industrial property ought to be made the subject of special treaties inwhen a National World's Fair shall be held in the city of dependent of commercial treaties, as well as treaties for the

4. A special department for industrial property should be established in each country. A central depot for patents, trade marks, designs, and models ought to be added to it for The Mexican Minister of Public Works has just announced the instruction of the public. Independently of all other that the Government is about to nominate a commission to publications, the department of industrial property should

5. A provisional protection ought to be granted to patent-American and Mexican productions, and to be under the di- able inventions, designs, models, and trade marks shown at official or officially authorized international expositions.

6. The time during which inventions, marks, models, and enterprise, is confident that it will be carried out. It cer-designs are shown at official international expositions ought tainly promises to furnish an admirable opportunity for our to be deducted from the total duration of ordinary protec-

> 7. The provisional protection granted to industrial inventors and authors who take part in official international exhibitions ought to be extended to all the countries which are represented at these exhibitions.

> 8. The fact that an object is shown in an international exposition ought not to be an obstacle to the right of seizure of the article if it is an infringement.

> 9. Each of the branches of industrial property ought to be

to hold an international exhibition in that city, commencing erty the same laws should govern a state and its colonies, Metropolitan Board of Works. At a recent meeting, the October, 1880. A public garden in the center of Melbourne as well as the different parts of a state. It is equally desir-lengther and consulting chemist of the board reported that has been secured for the exhibition, and Parliament has voted able that the treaties reciprocally guaranteeing industrial the surface of the Needle was in a condition that made it \$300,000 for the erection of the necessary buildings. This property concluded between two states should be applicable liable to be rapidly disintegrated by the action of the London

PATENT RIGHTS, AND WHO OPPOSE THEM.

In a communication to the Industrial Property Congress, lately held in Paris, Mr. Henry Bessemer, the inventor of the process of steel making known by his name, remarks that dur food, our clothing, our light, our homes, with all The instantaneous photographs of trotting horses, taken their thousand luxuries, owe their present character to that has a greater motion than its corresponding part, above or obtained are realized for the benefit and advancement of the conductivity of the latter.

not only the vault but the entire premises of the bank could below, there must be a liability to blurring in that part of mankind, Mr. Bessemer has no doubt that the rapid progress which the world has made, and is still making, in arts, glar would venture to attack it; and if some blunderer did. These pictures are taken with so brief an exposure that sciences, and civilization, would receive a severe check, enter the police would be instantly warned, and the invader the horse, though moving at a 2:24 gait, is sharply outlined. which would at once stop the avenues to wealth and fame, captured in the act, as has occurred in several instances | The wheels of the driver's sulky, however, have a differ- and would thus dam up the now overflowing stream of huent tale to tell. The lower third of each wheel is sharp and man intelligence, bar every road to improvement in the in-Yet these reputedly intelligent and careful directors did distinct as if absolutely at rest. Not so with the top, that dustrial arts, and send us back to those days of superstition

> Yet there are men who oppose all laws securing property ing pressed upon the world with unwonted force. Who are they? Mr. Bessemer answers:

First. A class of manufacturers whose purely selfish view The mails bring us part of the papers read at the Inter- is to make the most of their present imperfect means of production. Such men, on principle, oppose all change, be-

> Second. The unintelligent, in all positions of society, who have through life dragged their unimaginative existence beaten path which only they are able to tread. Such people are opposed to all novel ideas.

> Third. A too numerous class who, while able to appreto pay an inventor for the benefit he has conferred on them. his just claims by some miserable evasion of the law; but having been convicted in so doing, have had to pay heavy

> Doubtless, adds Mr. Bessemer, there are also some honest and honorable men who oppose patents conscientiously, and simply because they believe them to be injurious to the public interests; but this is a very small class, and is composed question, either in its scientific or commercial bearings.

> It would be impossible to state more patly and compactly the composition of the anti-patent forces; and it would be well to test the motives of those who shall assail our patent system in Congress next winter by the fact noted under the third classification.

A STEAM JURYMAN.

The other day a summons, commanding Thatcher Magoin to present himself for service in the jury box, was returned to the Commissioner of Jurors with the information that it had been served upon the wrong party. The Commissioner said to the bearer:

"That settles it as far as you are concerned, but Magoin must come here and show cause why he should not be a

"He can't," was the reply, "he's too busy. If he did come he would make things hot for you. Besides, you would have to send a derrick and a truck to bring him. He turns the scales at 5,000 lbs."

The Commissioner was incredulous; worse, he made remarks not complimentary to the speaker's condition with respect to sobriety. Then the summoned man explained.

"I am telling you facts, Mr. Commissioner," he said. "Thatcher Magoin is a steam engine, and is located at the foot of Fletcher street. I am Nicholas Morris, stevedore. Years ago I was employed by a man named Thatcher Magoin. I named my engine on pier 19, East River, after him. When the Directory man came to the dock to get names he saw the name of Thatcher Magoin on the engine, and thinking that he was the boss, put it in the book. You'll see it on page 949."

This, we believe, is the first time that a steam engine has been called to do political duty. There appears to be no reason, however, why a well conducted or well constructed piece of machinery, with a phonographic metric attachment, should not be able to hear and weigh evidence quite as efficiently as the average jury.

Cleopatra's Needle.

Northern climates are ill-adapted for the preservation of stone monuments, at the best; and when there is added to the inclemencies of the weather the action of a corrosive atmosphere, like that of London, the hardest stone stands small chance of preserving its integrity for any great length of years. The Egyptian column, Cleopatra's Needle, is scarcely in position on the banks of the Thames when the 10. It is desirable that in the matters of industrial propagation of its preservation engages the attention of the atmosphere and by frost. It was recommended that a trial be made of a "stone solution," to harden the surface and make it impervious to the weather; but, on the assertion by members of the board that the same solution had been used without success on the Houses of Parliament, the matter was referred to a committee for further inquiry.

Electrical Test for Oils.

Professor Palmieri, of Naples, has recently constructed an demonstration of the much disputed fact that the top of a characteristic of the present age—a spirit powerfully fostered apparatus which allows the purity of oils to be judged of wagon wheel, when running along the ground, moves faster and deservedly encouraged by those laws which proclaim by the resistance that they offer to the passage of electricity. than the bottom. It is obvious that an instantaneous pho- a personal property in inventions. Without this protection, Olive oil—a poorer conductor than any other—is taken as the tograph of a wheel, revolving upon its axle in the air, would not merely in the bare idea of some new force or unknown standard of comparison. The apparatus may also serve to show all parts of the wheel with equal distinctness. But if object, but in the development and creation of practical reveal the presence of cotton in silk fabrics; for a very the wheel have a progressive motion, and any one portion means, based on the new idea, whereby results never before small proportion of cotton in silk tissues greatly increases