# November 11, 1809.

sion of the country is taking place in every part of the world. This is a species of invasion, upon the ethical and economical aspects of which we are all pretty well agreed; and on the receipt of each bulletin announcing the success of the foreign representatives of our great industrial concerns in winning orders against strong local competition, we may well feel a touch of patriotic pride.

The latest and most significant instance of our invasion of foreign territory is furnished by the contracts which several American firms have secured for furnishing the plant and equipment for the Glasgow municipal tramways. The National Cable and Conduit Company is to supply and build the cables and conduits; the E. P. Allis Company the engines; the General Electric Company the electric fittings, and the first one thousand cars are also to be supplied by an American firm. The total value of these contracts is said to be in the neighborhood of \$15,000,000.

#### ----COMMISSIONER DUELL ON TRADE MARKS.\*

# The subject under discussion to-day is an important one, not only so far as it relates to domestic trade and commerce, but it is of even more importance in its bearing upon foreign commerce, which is the subject we are all most interested in at the present time. The manufacturers and merchants of this country must find an output for their products in the markets of the world, and that they are beginning to realize this is clearly shown by the statistics in reference to the export of manufactures. Nine months of the present calendar year show that such exports amounted to very nearly \$280,000,000 against nearly \$230,000,000 in the nine months of 1898. These exports form over 31 per cent of our total exports, as against less than 27 per cent for the corresponding months of 1898. Anything, therefore, which adds to our power to hold and increase this remarkable showing is of the utmost importance

In the first place, to secure a large foreign trade we must manufacture the goods that foreign nations demand. They must be unexcelled in the materials of which they are made, and in the manner of making and packing them. When the trade is once established, it can be only retained by continuing to send a grade of goods equally as good as those first sent. How important is it then that the exporter, in sending forward his goods, should have them so marked and distinguished that when the mark becomes known, no one can palm off an inferior grade of goods as the product of the one who has established the business. It becomes essential, therefore, that exporters should adopt and use trade marks.

From the earliest days of recorded history it has been the custom of men to indicate their proprietary rights in all kinds of movable property by the use of individual brands, marks and other insignia of ownership. As trade and commerce extended and ceased to be local, it became more important for the manufacturer and merchant to distinguish their goods from those of others. At first, signs and symbols, such as representations of animals, stars, shields, crescents, and the like, were employed. As man ascended in the scale and education became more diffused, coined words were employed, but, whatever the mark selected, it should be one which is a lawful trade mark, the right to which can be maintained against any and everybody.

The exclusive right to property in trade marks has been recognized by all civilized countries for many years; and as the importance and necessity for preserving proof of the adoption and use of marks became more important, statutory provisions for the registry of such marks have been enacted by most of the countries of the world. The first national trade mark law in the United States was adopted in 1870. That act was declared unconstitutional by the Supreme Court. Up to that time some 8,000 trade marks had been registered in the United States Patent Office. In 1881 a new trade-mark law was enacted under which nearly 25,000 marks have already been registered. That the present law needs amendment is universally admitted, but I will leave for others the discussion of the question as to how the law should be amended. Notwithstanding the large number of marks that have been registered in the Patent Office, thousands of alleged trade marks presented for registration have been refused because they did not disclose matter that was susceptible of exclusive appropriation, and this leads me to the point to which I desire most earnestly to call your attention. The advice will consist largely of "don'ts," although it will not be as sweepingly used as Punch's advice to the young man about to marry. Do adopt and use trade marks, not only for your domestic but for your foreign trade. When you select a mark, be very careful that it is a lawful trade mark, and one to which your right is undeniable.

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ity and character. This right is common to all men, and, therefore, if there are twenty men by the name of John Adams, each one of the twenty has as good a right as any of the others. True, he cannot use his name in an unlawful manner, and from such use he will be enjoined, but a mark which consists merely of the name of the party using it is a very weak reed upon which to rely.

Don't adopt a geographical term. The Supreme Court of the United States has repeatedly held that no one can exclusively appropriate to his own benefit a geographical term so as to prevent others inhabiting the same or similar territory from dealing in similar articles. It is true that the decisions of the courts have not been uniform on this subject, but in every case. with possibly one or two exceptions, where the exclusive right to use a geographical term has been sustained, some peculiar facts have led to the decision. If you wish to keep out of litigation. don't select a geographical term for your trade mark.

Don't adopt a descriptive word or name. It has been held by the courts times without number that words or names simply indicating the quality or ingredients of the articles cannot be appropriated so as to prevent others from employing the same words upon the same articles.

Don't adopt a word expressing quality, grade or peculiar excellence. No man has the exclusive right to use any word or symbol which merely indicates the excellence of his article. No more has he the right to exclusively appropriate for his products marks, letters, numbers, or words which actually indicate the grade of the article. While I cannot say don't adopt a suggestive word (for such a word will generally be sustained by the courts), the greatest care should be used or you will enrich some member of my profession.

It is so easy to select a device or symbol or to coin a word that there is no reason why a manufacturer or merchant should select as his mark anything which is not a lawful trade mark or which is on the border line. and will in all probability ultimately land him in the courts. So many alleged trade marks are presented at the Patent Office for registry, and those not being lawful trade marks have to be rejected, that I have felt impelled to make use of this opportunity to utter this note of warning.

Through our labor-saving inventions we are able to produce manufactured articles as cheaply as they are produced in many other countries where wages are much lower. If then our manufacturers send out only such of our manufactured products as suit the tastes and requirements of the people to whom they sell, we cannot fail to greatly extend our export trade in manufactured articles; and, when once established, if we have adopted and used lawful trade marks to indicate our ownership and title, there will be no reason why the trade, once gained, cannot be kept indefinitely.

#### ----SEARCHLIGHTS FOR THE NEW YORK FIRE DEPARTMENT.

The New York Fire Department is about to add a complete portable electric searchlight plant to its apparatus. The searchlight wagon will go to fires with the engines, etc., and it is believed it will add greatly to the efficiency of the force, both in saving life and property. It resembles a fire engine in general appearance, but instead of a pump it has an engine and dynamo. There are two searchlights each with an 18-inch lens. These will be carried on a platform behind the driver's seat. They can be used either from the platform or removed and carried to any desirable point of vantage, all communication with the generator being kept up by means of flexible cables which are insulated with rubber. The lights are provided with devices for quick regulation so that the light may be spread out over a wide area or confined and directed to any particular point. The purpose of the apparatus will be to light up dark parts of the street and aid the firemen in laying the hose, setting ladders, etc., also to light up the front of buildings where people may be in danger and to project light into the buildings themselves.

### ----HE NEW GOVERNMENT PRINTING OFFICE.

## OUR CALIFORNIA NATIONAL PARKS.

The report just made to the Secretary of the Treasury by Second Lieutenant Henry B. Clark, the acting superintendent of the Sequoia and General Grant National Parks, in California, deals in an interesting manner with the problems under his control. During the past fiscal year much devastation of timber by forest fires and of game by unlawful hunting has been unpreventable by the force under his command. because of the necessary removal of the regular military patrol for war service and the entirely inadequate force of civilian custodians appointed in their place. It is estimated that over 200,000 sheep have been roaming at will over these reserves, private property fed at public expense; and by these many of the nests of game birds have been trampled out and much of the herbiage needed by the elk and mountain sheep has been consumed. The latter two species have practically all been killed off, and other smaller game, now in greatly decreased quantities, will be preserved with difficulty unless immediate and energetic steps are taken. Mountain lions, panthers, coyotes, several varieties of fox, black, brown, and cinnamon bear, deer, mountain and valley quail, and many species of fish are still quite abundant; and probably the carnivores in this list are holding their own. Speaking of the mighty forest monarchs of the General Grant Park, Lieutenant Clark says:

"The tree General Grant was named in honor of the general while he was still in command of the armies in 1867. The stump and log of the immense tree exhibited at the Philadelphia Centennial are well-preserved objects of interest. Another log has been so burned that a cavalryman can ride through its whole length, 125 feet. The stump of the World's Fair tree is to be found north of the Grant Park. The largest tree in the Giant Forest is the General Sherman, 341/2 feet in diameter at its base. This is conceded to be the largest and finest tree in the world, rivaling the eucalypti of Australia in height, and far surpassing everything else in bulk. Another clean and healthy sequoia, which has stood sentinel over the Sierras and the Pacific for more than a thousand years, is called the Admiral Dewey. Visitors are generally content to stand uncovered and almost mute from respect to these dignified monarchs of our forests."

#### ----NEW METHOD OF DETECTING GOLD.

A new method of detecting the presence of a small quantity of gold has been recently discovered by Dr. Ohler. By this method the presence of quantities as low as 77 centigrammes per ton may be established. The operation is as follows: A quantity of finely powderedore, say 120 grammes, is introduced into a flask. To this an equal volume of tincture of iodine is added, and the mixture well agitated. It is then left for an hour, agitating from time to time, and 'is finally allowed to stand. When the solution has separated, a band of filter paper is saturated with this, and the paper allowed to dry. This operation is repeated five or six times in succession, in order to completely saturate the paper. It is afterward calcined, and it will be observed that the ash, when gold is present, offers a purple color. This color should disappear quickly if the ash is moistened with bromine water. The test may be modified in the following manner. A quantity of the powder, 120 grammes; is covered with bromine water, and after agitating during the course of an hour, the solution is filtered. Upon adding protochloride of tin to the solution, it takes a purple color, in the presence of gold, giving the reaction known as "Purple of Cassius." In the case of sulphides the ore should be previously roasted, and when the mineral contains a considerable proportion of carbonate of lime, it should be calcined in the presence of ammonium carbonate.

#### 442-0 USES FOR CORN STALKS.

Half a dozen years ago the farmer considered the value of his corn crop to be practically terminated with the husking of the corn. What was left was worth a very small sum an acre as fodder. Many experimenters, however, working along different lines have established the value of the by-products of the corn crop, and there is now a home market where a farmer can get from \$3 to \$5 a ton for corn stalks, so that their value is now from \$6 to \$12 an acre. The American Agriculturist recently gave the following list of what can be made from corn stalks; first, cellulose for packing coffer-dams on our ships: second, pyroxyline varnish; third, cellulose for nitrating purposes for making smokeless powder and other explosives; fourth, as a packing material; fifth, for paper pulp and the various forms of paper made therefrom, both alone and mixed with other grades of paper stock; sixth, as a stock food made from the fine outer shells or shives of the corn stalks and also from the nodes, or joints. The leaves or tassels also furnish a shredded or bale fodder; seventh, mixed feeds for stock containing fine ground shell or shives as a base and in addition thereto various nitrogenous materials and concentrated food substances, or blood, molasses, distillery and glucose refuse, sugar beet pulp, apple pomace and other by-products; and eighth, poultry foods.

Don't adopt your own name as a sole mark for your manufactures. Every man undeniably has a right to use his own name upon his own goods to indicate their origin and ownership and as a guarantee of their qual-\* Address delivered at the InternationalCommercial Congress, at Philadelphia.

The new government printing office will cost about \$2,000,000, and it is said that even after its completion. it will not be large enough to meet the demands upon it. The new building will be eight stories in height, and its floor space will be about nine acres. The floors will sustain a load of 85,000,000 pounds. The building will be constructed in such a substantial manner that nearly the entire space can be filled with paper and books without injuring its stability in any degree. Access to the various floors will be obtained by twelve electric elevators. The building will be lighted with 7,000 incandescent lights. A refrigerating plant will furnish cold filtered water on every floor for drinking purposes. A large crematory will destroy all the refuse material, and this will aid in heating water, etc. It is hoped in time that Congress will appropriate the money for modern typesetting machines, but it is probable that when the census is complete and the reports published, the equipment of the census printing office will revert to the government printing office.