To Make Cloth, Paper, etc., Fireproof
Several preparations for rendering textile and other inflammable fabrics incombustible and practically fireproof have been brought out by MM. Martin and Tessier, of Paris. The compositions are said to be of an inexpensive nature and capable of rendering incombustible all kinds of readily inflammable substances, such as woven and other fabrics of cotton and other fibrous materials, paper, printed or otherwise, including bills of exchange and other securities, woodwork, theatrical scenery, straw, etc. The first composition, which may be applied to all kinds of fabrics without deteriorating them in any way, consists of:


It is simply necessary to steep the fabrics in a hot solution composed as above until they have become thoroughly impregnated, after which they are drained and dried sufficiently to enable them to be ironed or pressed like ordinary starched goods.
A second composition to be used for theatrical scenery (or the mounted but unpainted canvas to be used for this purpose), and also for woodwork, furniture, door and window frames, etc., is to be applied hot with a brush like ordi nary paint. It is composed of:


To which is added a sufficient quantity of a suitable calcare ous substance to give the composition sufficient body or consistency.
A third composition, to be used for coarse canvas or sail cloth, cordage, straw, and wood, is applied by immersing cloth, cordage, straw, and wood, is applied by imm
 A fourth composition, applicable to all kinds of pap whether printed or not, including securities, books, etc., i formed of:


The solution is to be placed in a vat heated to $50^{\circ}$ C. $\left(122^{\circ}\right.$ Fah.) at the end of the paper-making machine, and the paper as it leaves the machine is passed through the solution in this vat, so as to be completely impregnated therewith, after which it is dried upon a warm cylinder and then wound on a reel. If the paper be in sheets or printed it is simply immersed in the above solution, heated to $50^{\circ} \mathrm{C}$., spread out to dry, and afterward pressed to restore the glaze destroyed by the moisture.
The above compositions are said to insure a degree of incombustibility without precedent as regards the preservation of the materials to which they are applied. The proportions of the several ingredients are given as examples only, and may be varied as found necessary in practice.

## The Social Science Association.

The last day's session began with a paper by Frederick Douglass on the exodus of negroes from the South. Mr. Douglass strongly opposed the movement, holding that the South was not only the best place for the negro as a field of labor, but best on the grounds of his political powers and possibilities. The position taken by Mr. Douglass was opposed by Professor T. R. Greener, of Howard University, and President Anderson, of Rochester.
William A. Hovey, of the Boston Transcript, read a strik ing paper on co-operative stores in England and America. Mr. James Samuelson, of Liverpool, England, presented cer tain schemes for the material advancement of the working classes, and Mr. Joseph D. Weeks, of the Iron Age, gave an address on industrial arbitration and conciliation. Debt making and debt paying in American cities was discussed by Mr. William F. Ford, of Philadelphia. In the department of social economy, Mr. F. B. Sanborn, secretary, pre sented his annual report; and there was read a paper sent by Charles L Brace, of the Children's Aid Society, discussing the methods of dealing with poor and vicious children. Institution life for children was treated in a paper by Rev. T. K. Fessenden, of Connecticut, and debated by several members. The closing paper was by Mr. Robert P. Porter, of the Chicago Inter-Ocean, on the industrial, agricultural, and financial outlook of the West. It presented an array of facts and figures that astonished cven those who had a gen recent years.

## A Remarkable Pompano

Mr. C. A. Lewis, at the Washington Fish Market of this city, has recently had on exhibition the largest pompano ever known. It was taken with Spanish mackerel off Nor folk, Va., and weighed twenty-three pounds. Usually these fish range between one and three pounds in weight. A four pounder is rare. A bove that weight but one specimen has ever before been brought to this market, and that weighed nineteen pounds. Mr. Lewis' fish was perfect in every particular, though a monster in size. It was sent to the Smith sonian Institution at Washington.

RECENT DECISIONS RELATING TO PATENTS, TRADE MARES, ETC.
By Judge Clifford.-U. S. Circuit Court-District of Massachusetts.
boot and shoe sewing machines.-THomas et al. v. th
shoe machinery manufacturing company et al.

1. Reissued patents are presumed to be for the same inven tion as the original, and will only be adjudged to be void be cause for a different invention where it clearly appears that the reissue contains some new feature of a material charac ter not described, suggested, nor substantially indicated in the specification, drawings, or Patent Office model.
2. The fact that a reissue patent has been granted is prima facie evidence that satisfactory proofs have been given to th Commissioner of such a state of facts as warrant the reissue even though the patent may contain no recitals that the pre requisites to the grant have been fulfilled.
3. After reissue the Commissioner's decision in the prem ises in a suitfor infringement is final and decisive, and is nd re-examinable in such a suit in the circuit court, unless it is apparent on the face of the patent that he has exceeded his authority, and that there is such a repugnancy between the old and the new patent that it must be held as matter of lega construction that the new patent is not for the same invention as that embraced and secured in the original.
4. The applicant for reissue cannot interpolate new features not described, suggested, or substantially indicated in his original specification, drawings, or model. Such inter polations in a reissue patent, if material, show that the Com missioner exceeded his jurisdiction; and where that is don it clearly becomes the duty of the court to declare the patent void.
5. The courts will in no case declare a reissue patent void if, by the true construction of the two instruments, the inven tion secured by the reissue is not substantially different from that embodied in the original patent. Inquiries in such a case are restricted to a comparison of the terms and import of the two patents in view of the drawings and moder from these it results that the invention claimed in the reissubstantially different from that described, suggested, or indicated in the originalspecification, drawings, ormodel, or indicated in the originalspecification, drawings, ormodel,
the reissued patent must be held valid, asallotheralterations and amendments plainly fall within the intent and purpose of the statute which allows a surrender and reissue.
6. Inventions secured by letters patent are presumed to be new and useful until the contrary is shown; and, in the ab sence of countervailing proof, that primafacie presumption is sufficient to entitle the complainant to a decree in a suitfor infringement.

## By the Commissioner of Patents.

anvil.-EX parte ducsh
The combination of a drill, adjustable standard, and vise with an anvil, as such, is not a legitimate mechanical com bination, for the anvil, as such, can make no contribution to any distinct operation of the entire machine. But the com bination of a drill, adjustable standard, and vise, by means of a base to which the standard and vise are attached, is legitimate combination, embracing no supernumerary ele ments, and, if novel, is patentable.
time lock. - ex parte kook \& hall.
When the different forms referable to one genus are such hat the substitution of one for another involves invention, the differences are patentable, and the several forms consti tute different species of the genus, all subject to one generic patent, but each legally patentable in a distinct and specific patent. When, however, the substitution of one for the othe involves no invention, but only mechanical skill, the differ ences are not patentable, and the forms do not constitute ences are not patentable, and the forms do not constitute
severies of the genus, but are all modifications of the same species.
vegetable life-destroyer and sprout-killer.-ex parte rodgers.
A decision of the Examiners-in-Chief, lawfully made in any case, constitutes a rule for the Primary Examiner in that case until the decision is overruled by the Commissioner.
metallic lines or cords for suspending pictures, etc. - EX PARTE HOOKHAM.
A claim for an improvement in metallic cords for suspend ng pictures and other articles may be united in one patent with a claim for an improvement in fastenings for connect ing pictures and other articles to cords; but these claims cannot be united with a claim for a reel for holding such cords in stock.

## scythes.-EX parte roby.

The substitution of edge steel enveloped in soft steel, in lieu of edge steel enveloped in iron or other material, in the manufacture of scythes, is a patentable improvement if the scythes in which the soft steel is used have more elasticity, less weight, and take a better polish than those constructed in any other form.

1. Minor non-essential elements of a composite symbol of trade, when used in connection with other parts which constitute its main features, cannot be registered as a trade mark; but those parts, when so used as obviously to consti tute the main features of the aggregate symbol, are registra ble as a trade mark.
2. Two parallel scales of inches and fractional part thereof, when so used as to be the main features of the entire
lawful trade mark; but when used as a mere border to inclose ornamental designs or other trade marks of the applicant cannot constitute a lawful trade mark.

By the Acting commissioner of Patents. vent plugs.-EX parte hicks.

1. A claim for an article of manufacture cannot be changed by reissue into a claim for a process when the process was but a legitimate function of the particular article, and the article described was indispensable to tte conduct of the
2. Where an application or a patent is restricted to a description and claim of a particular apparatus, neither the one nor the other can be subsequently enlerged to embrace a claim for a method that would include the same and an other means for producing the same result performed by that apparatus.

## Part of One Day's Shipments of Food.

On Saturday, September 13, seven large steamers sailed from this port for Europe Jaden with American produce. The Helvetia, of the National Steamship Line, for Liver pool, had on board 1,200 bales of cotton, 84,000 bushels of grain, 800 boxes of bacon, 900 boxes of cheese, 150 packages of butter, 700 sacks of flour, 200 cases of canned meats, 200 packages of sundries, and 45 tons weight of fresh meat.
The Germanic, of the White Star Line, forLiverpool, took out 1,600 boxes of bacon, 31 tierces of pork, 100 barrels of pork, 700 barrels of sugar, 210 barrels of sirup, 2,800 sacks of flour, 1,300 bales of cotton, 48 hogsheads of tobacco, 18,000 bushels of corn, 500 barrels of flour, 450 bales of hops 11,000 boxes of cheese, 3,000 boxes of butter, and 60 tons of fresh meat.
Among other articles of merchandise the Olympus, of the Cunard Line, for Liverpool, had on board 2,200 bales of cot on, 13,000 bushels of wheat, 12,000 bushels of corn, 100 sacks flour, 60 casks of skins, 30 tons of leather, 500 boxes of bacon, 400 cases of canned meats, and 500 dried hides.
The cargo of the steamship Oder, of the Imperial German Mail Line, for Bremen, was composed of 8,032 bushels of corn, 5,370 bushels of wheat, 340 hogsheads of tobacco, 550 cases of tobacco, 190 bales of tobacco, 2,200 packages of but ter, 1,500 sides of leather, 350 tierces of lard, 50 tierces of grease, 200 barrels of flour, 100 barrels of peas, 75 boxes of bacon, 300 boxes of corned beef, 180 boxes of sausages, and 50 barrels of corned heef.
The Ethiopia, of the Anchor Line, for Glasgow, carried 40,000 bushels of corn, 1,700 barrels of flour, 6,000 sacks of flour, 4,000 boxes of cheese, 20 hogsheads of tallow, 150 tierces of beef, 900 boxes of bacon, 7,000 packages of butter, 900 quarters of fresh beef, and 200 carcasses of sheep.
The Australia, of the Anchor Line, for London, had on board 5,800 sacks of flour, 550 sacks of oatmeal, 4,035 packages of canned goods, 230 boxes of bacon, 125 boxes of hams, 50 tierces of beef, 470 barrels of tongues, 7,800 boxes of cheese, 450 barrels of lard oil, 450 barrels of flour, 8,000 bushels of wheat, 790 quarters of beef, 300 carcasses of sheep, and 125 live bullocks.
The Assyria, of the Anchor Line, for Bristol, took out 32,000 bushels of wheat, 2,000 barrels of flour, 3,000 boxes of cheese, 400 boxes of bacon, 100 tons of tallow, 400 barrels of lard oil, 900 packares of lard 140 tons of oil cake, and 1,400 bags of flour
This, it must be
This, it must be borne in mind, includes only the more important shipments by steamers. A vast amount of produce, particularly grain, is exported in sailing vessels.
Ship owners report a rapidly increasing demand for American products in Europe-a demand so urgent that the carrying rates for grain have been raised from thirty to forty per cent above those that obtained three months ago.

## A Lady Patent Lawyer.

For the first time in the federal courts of this district a lady practitioner appeared the other day in this city be fore Judge Blatchford, in the United States Circuit Court, and argued in person a motion for an injunction in a patent suit for the alleged infringement of a patent of her own The lady is Miss Helen Marie MacDonald, of Boston.
It will be remembered that for the last ten or fifteen years a considerable number of ladies have been employed in the Patent Office at Washington, some of whom have occupied the positions of examiners. In general they have shown activity and ability in the discharge of their official duties, and the experience gained ought to qualify them to serve ac ceptably as attorneys.

## Our Trade with England.

The British Bureau of Statistics report that America is exporting to Great Britain three times as much as Grea Britain sends to this country, and that with the rapid in crease in American exports there is a correspondingly rapid decrease in British exports. In round numbers, the exports from the United States to Great Britain for the last fiscal year amounted to $\$ 333,000,000$, while the exports from Great Britain to this country in the same period amounted o about $\$ 111,000,000$.

## American Gynecological Society.

The fourth annual convention of the American Gyneco logical Society met at Johns Hopkins University, Baltimore Md , Sept. 17, for a three days' session. Dr. T. G. Thomas of New York, presided. There was a good attendance, embracing many of the most eminent physicians in the United States.

