### 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:

Sulphate of ammonia (pure)	6
Sulphate of ammonia (pure)	5
Boracic acid	.7
Borax (pure)	.7
Starch 2	
Water 100	j

It is simply necessary to steep the fabrics in a hot solution composed as above until they have become thoroughly imto enable them to be ironed or pressed like ordinary starched

A second composition to be used for theatrical scenery purpose), and also for woodwork, furniture, door and window frames, etc., is to be applied hot with a brush like ordinary paint. It is composed of:

	FILOS
Boracic acid	5
Hydrochlorate of ammonia or sal ammoniac	15
Potassic feldspar	-š
Gelatine	Ĭ·5
Size	50
Water	100

To which is added a sufficient quantity of a suitable calcareous 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 the articles therein or by imbibition, and consists of:

	Kilos.
Boracic acid	6
Hydrochlorate of ammonia or sal ammoniac	15
Borax (pure)	8
Water	100

A fourth composition, applicable to all kinds of paper, whether printed or not, including securities, books, etc., is formed of:

	KHOS.
Sulphate of ammonia (pure)	8
Boracic acid	ŏ
Doracle acid	
Borax	1.7
Water	

The solution is to be placed in a vat heated to 50° C. (122° Fah.) at the end of the paper-making machine, and the paper as it leaves the machine is passed through the solution in this infringement. 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° 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. labor, but best on the grounds of his political powers and and President Anderson, of Rochester.

William A. Hovey, of the Boston Transcript, read a strik-same species. ing paper on co-operative stores in England and America. Mr. James Samuelson, of Liverpool, England, presented certain 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, presented his annual report; and there was read a paper sent by the methods of dealing with poor and vicious children. members. The closing paper was by Mr. Robert P. Porter, cords in stock. 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 even those who had a genrecent 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 Norpounder is rare. Above that weight but one specimen has ever before been brought to this market, and that weighed ble as a trade mark. nineteen pounds. Mr. Lewis' fish was perfect in every particular, though a monster in size. It was sent to the Smithsonian Institution at Washington.

### RECENT DECISIONS RELATING TO PATENTS, TRADE MARKS, ETC.

### By Judge Clifford.-U. S. Circuit Court-District of Massachusetts.

BOOT AND SHOE SEWING MACHINES. - THOMAS et al. v. THE SHOE MACHINERY MANUFACTURING COMPANY et al,

- 1. Reissued patents are presumed to be for the same invention as the original, and will only be adjudged to be void because for a different invention where it clearly appears that the reissue contains some new feature of a material character 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 the Commissioner of such a state of facts as warrant the reissue, even though the patent may contain no recitals that the prerequisites to the grant have been fulfilled.
- 3. After reissue the Commissioner's decision in the prempregnated, after which they are drained and dried sufficiently ises in a suit for infringement is final and decisive, and is na re-examinable in such a suit in the circuit court, unless it is from this port for Europe laden with American produce. apparent on the face of the patent that he has exceeded his authority, and that there is such a repugnancy between the (or the mounted but unpainted canvas to be used for this old and the new patent that it must be held as matter of legal 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 interpolations in a reissue patent, if material, show that the Comit clearly becomes the duty of the court to declare the patent 11,000 boxes of cheese, 3,000 boxes of butter, and 60 tons of
  - 5. The courts will in no case declare a reissue patent void if, by the true construction of the two instruments, the inven- Cunard Line, for Liverpool, had on board 2,200 bales of cottion secured by the reissue is not substantially different from ton, 13,000 bushels of wheat, 12,000 bushels of corn, 100 sacks 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 models. If from these it results that the invention claimed in the reissue is not substantially different from that described, suggested, corn, 5,370 bushels of wheat, 340 hogsheads of tobacco, 550 or indicated in the original specification, drawings, or model, the reissued patent must be held valid, as all other alterations 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 abis sufficient to entitle the complainant to a decree in a suitfor

## By the Commissioner of Patents.

## ANVIL -EX PARTE DUCSH.

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 combination of a drill, adjustable standard, and vise, by means of a base to which the standard and vise are attached, is a legitimate combination, embracing no supernumerary elements, and, if novel, is patentable.

## TIME LOCK,—EX PARTE KOOK & HALL.

When the different forms referable to one genus are such that the substitution of one for another involves invention, the differences are patentable, and the several forms consti-Douglass strongly opposed the movement, holding that the tute different species of the genus, all subject to one generic South was not only the best place for the negro as a field of patent, but each legally patentable in a distinct and specific patent. When, however, the substitution of one for the other possibilities. The position taken by Mr. Douglass was op- involves no invention, but only mechanical skill, the differ posed by Professor T. R. Greener, of Howard University, ences are not patentable, and the forms do not constitute several species of the genus, but are all modifications of the

### 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-Charles L Brace, of the Children's Aid Society, discussing ing pictures and other articles may be united in one patent with a claim for an improvement in fastenings for connect-Institution life for children was treated in a paper by Rev. ing pictures and other articles to cords; but these claims and the experience gained ought to qualify them to serve ac-T. K. Fessenden, of Connecticut, and debated by several cannot be united with a claim for a reel for holding such

## 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 eral idea of the rapid industrial progress of the West during 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.

## TRADE MARK,—EX PARTE COATS.

- 1. Minor non-essential elements of a composite symbol of to about \$111,000,000. trade, when used in connection with other parts which confolk, Va., and weighed twenty-three pounds. Usually these stitute its main features, cannot be registered as a trade fish range between one and three pounds in weight. A four mark; but those parts, when so used as obviously to constitute the main features of the aggregate symbol, are registra
  - symbol or device in which they are shown, will constitute a | States.

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 the 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 enlarged to embrace a claim for a method that would include the same and all 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

The Helvetia, of the National Steamship Line, for Liverpool, 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, for Liverpool, 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, missioner exceeded his jurisdiction; and where that is done 18,000 bushels of corn, 500 barrels of flour, 450 bales of hops, fresh meat.

Among other articles of merchandise the Olympus, of the of 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 cases of tobacco, 190 bales of tobacco, 2,200 packages of butter, 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 sence of countervailing proof, that prima facie presumption 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 pack-The combination of a drill, adjustable standard, and vise ages 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 packages of lard, 140 tons of oil cake, and 1,400 bags of flour.

> 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 before 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,

## Our Trade with England.

The British Bureau of Statistics report that America is exporting to Great Britain three times as much as Great Britain sends to this country, and that with the rapid increase 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

## American Gynecological Society.

The fourth annual convention of the American Gynecological Society met at Johns Hopkins University, Baltimore, Md, Sept. 17, for a three days' session. Dr. T. G. Thomas, 2. Two parallel scales of inches and fractional parts of New York, presided. There was a good attendance, emthereof, when so used as to be the main features of the entire bracing many of the most eminent physicians in the United