om the London Spectator, Navember 13.

"SOLAR WONDERS." The Marvels of the Sun-The Zoffner Ple-tures The Sun "Flames" Sofar Storms. Astronomers have been revealing so many sonders in the vast globe which rules the planetary scheme, that we cannot yet hope to see the startling results of their researces co-ordinated into a consistent whole. On every hand new marvels are being brought to ight. At one time Mr. Lockyer surprises us by exhibiting the amazing velocities with which the solar storms rage across the blazing mrace of our luminary. At another, the mergotic astronomer who presides over the Roman Observatory tells us of water within he fierce tumult of the solar spots. The New observers track the strange influences of he planets on the solar atmosphere, watching not only the great tide of spots which sweeps in the ten-year period over the solar storm-tones, and then leaves our sun clear from peck or stain, but also the ripples of spotormation which come in shorter periods, and eem inextricably blended to ordinary obervers with the great periodic disturbances. astly, Lockyer, Huggins, Zollner, and hi describe the magic changes form which pass over tongues flame, projecting thousands niles from the solar surface. We have before is as we write a series of colored prominence pictures taken by Dr. Zollner, the eminen photometrician. It is impossible to contem plate these strange figures without a sense of the magnificence of the problem which the sun presents to astronomers. Here are vast entities—flames, if we will, but flames unlike all those with which we are familiar. And iese vast tongues of fire assume forms which speak to us at once of the action of forces of he utmost violence and intensity. The very spect of these objects at once teaches this, but it is the rapid changes of place and of figure to which the spots are subjected that are most significant on this point. Here is a vast cone-shaped flame, with a mushroom-shaped head of enormous proportions, the whole object standing 16,000 or 17,000 miles from the sun's surface. In the cone figure we see the uprush of lately imprisoned gases, in the outspreading head the sudden diminution of pressure as these gases reach the rarer upper atmosphere. But turn from this object to a series of six pictures placed beside and we see the solar forces in action. First, there is a vast flame, some 18,000 miles high, bowed towards the right, s though some fierce wind were blowing pon it. It extends in this direction some our or five thousand miles. The next picture represents the same object ten minutes The figure of the prominence has wholly changed. It is now a globe-shaped mass, standing on a narrow stalk of light above a row of flame-hillocks. It is bowed owards the left, so that in those short minutes the whole mass of the flame has swept thousands of miles away from its former position. Only two minutes later, and again a complete change of appearance. The stalk and flame-hillocks have vanished, and the globe-shaped mass has become elongated. Three minutes later the shape of the prominence has altered so completely that one can hardly recognize it for the same. The stalk s again visible, but the upper mass is bowed own on the right, so that the whole figure resembles a gigantic A, without the crosspar and with the down-stroke abnormally thick. This great A is some twenty thousand miles in height, and the whole mass of our earth might be bowled between its legs without touching them! Four minutes pass, and again the figure has changed. The flamenillocks reappear, the down-stroke of the A begins to raise itself from the sun's surface. Lastly, after yet another interval of four tes, the figure of the prominence has lost all resemblance to an A, and may now be likened to a camel's head looking towards the right. The whole series of changes has cupied but twenty-three minutes, yet the me exceeded our earth in volume ten-fold it the least. But Mr. Lockyer has recorded instance of a yet more marvellous nature. vast prominence extending seventy or ighty thousand miles from the sun's surface anished altogether in ten minutes. The ery way in which Zollner's drawings were aken savors of the marvellous. We have poken of them as colored. They are ruby-ted, and so the prominences appeared to the tronomer. The real light of the promiences is not only ruby-red, however, but ose-colored, with faint indications of pink, or even bluish tints. The fact is, that by the new method of observation the image of a prominence is formed by only a certain part of its light. We may say that out of the several colored images of the same prominence the astronomer selects one only for examination. The explanation of this is worth tonsideration, as it involves the essence of the method by which the prominences are seen at all. When we analyze lights with a simple prism as Newton did, we get instead of a round spot of white—that is, mixed light—a row of overlapping spots of different color. It was only when, instead of a round spot, a fine line of white light was analyzed, that one could detect the absence of images of this line along certain parts of the rainbow-colored streak-in other words, it was thus only that the dark lines of the spectrum could be seen. And it was to see these lines more clearly that the slit of the spectroscope was made so narrow and the rainbow-spectrum made so long by spectroscopists. But the observers of the fominences go back to the old method. If they used a narrow slit, a narrow strip of the prominence would alone form its spectrum, which would consist of a few bright lines. But by having a wide slit the whole promisence forms its spectrum, which consists of few bright pictures of the prominences. There is a green picture corresponding to the bright spectral line called F, a red picture corresponding to the bright spectral line called C, and so on. If the whole set of pictures were formed at once we could see none of them, for there would be side by side with them the blazing solar spectrum which would obliterate them altogether, just as in ordinary telescopic observation the bright sun-

cance of the circumstance should it eventually be established. It seems to us that when we consider the real dimensions of the solar globe, we appreciate more fully the wonderful nature of those

light blots out the prominences from the

view. But if the observer uses such a bat-

tery of prisms that the solar spectrum would

be very tong indeed, and if he admits to view

only that part of the spectrum opposite which one of the prominence-images exists, he can

then see that image quite distinctly, for the neighboring part of the solar spectrum is so

reduced in splendor that it no longer obliterates the prominence figure. In this way, then, the observer selects one or other of the

pictures of a prominence, either the red or the green picture, to examine. And strangely

enough, it is by no means certain that the two pictures are alike. Rather it is highly

probable that they are different, though we have not space here either to indicate reasons

for believing this, or to explain the signifi-

processes of action indicated by recent re-searches, than when we regard these without direct reference to the sun's magnitude. How many of us really appreciate the enormous volume of the sun? We read certain figures in books of astronomy, but do we grasp their full significance? There is, however, a sim-ple way of viewing the matter which at once opens our eyes to the vastness of the solar

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Quantin, deceased, praying for the extension of a patent
to the said Alphonse Quantin on the 4th day of March,
1866, and reissued on the 18th day of January, 1865, for an improvement in the METHOD OF BOTTLING FLUID
UNDER GASEOUS PRESSURE, it is ordered that the
testimony in the case he closed on the 1st day of Fobrary
next, that the time for filing arguments and the Examiner's report he limited to the 11th day of February next,
and that said petition be heard on the 16th day of February next.

any next.

Any person may oppose this extension.

SAMUEL S. FISHER,

Commissioner of Patents STATE RIGHTS FOR SALE - STATE N. Rights of a valuable luvention just parented, and for the SLICING, CUTTING, and CHIPPING of dried beef, cabbage, etc., are hereby effered for sale. It is an article of great value to proprietors of hotels and restaurants, and it should be introduced into every family. STATE RIGHTS for sale. Model can be seen at TELEGRAPH OFFICE, OOOFEE'S POINT, N. J.

5794 MUNDY & HOFFMAN. AUOTION SALES.

M. THOMAS & SONS, NOS. 139 AND 141 SALE OF REAL ESTATE AND STOCKS, Tuesday, Dec. 14, at the Exchange, BEACH STREET, Eighteenth ward—Three-story Brick Deciling

HUTCHINSON STREET, south of Master-Two three story Brick Dwellings.

CHESTER GOUNTY Valuable property known as the Franklin House and 15 acres of Land.

TWENTY-THIRD STREET, No. 830, (North)—Threestory Brick Dwelling.
TWENTY FIRST AND CHERBY, N. E. corner Valuable Lot.
THOMPSON STREET, west of Twenty-fifth Valuable

Lot
COATES STREET, No. 2218—Modern Dwelling.
WALLAGE STREET, No. 2215—Modern Dwelling.
FIFTH AND LOCUST, S. W. corner—Business Stand:
SUMMER STREET, No. 2122—Business Stand:
SHARSWOOD STREET, east of Twenty-fourth—Two
three-story Brick Dwellings.
STEWARD STREET, cast of Twenty-fourth—Two
twe-story Brick Dwellings. tory Brick Dwellings. SFRUCE STREET, No. 1616 - Modern four-story Brick FORTY-FOURTH STREET, north of Eadline-Brick Cottago, ENTERPRISE STREET, Nos. 519 and 521-Two two

CORTY-FOURTH STREET, north of Eadline-Brick Cottage.

ENTERPRISE STREET, Nos. 519 and 521—Two twestory Brick Dwellings.

FIETH STREET, No. 2315, (North)—Brick Dwelling.

GROUND RENTS, 542 and 5250.

5 shares Leinigh Conl and Navigation Co.

16 shares Kittanning Coal Co.

167 shares Ceal Ridge Improvement and Coal Co.

160 shares Little Schuylkill Railroad and Coal Co.

160 shares Locust Mountain Coal and Improvement Co.

12 shares McKean and Elk Land and Improvement Co.

12 shares Philada, and West Chester Turnpike Co.

12 shares Parly Turnpike Co.

16 shares Allegheny Railroad and Coal Co.

16 shares Allegheny Railroad and Coal Co.

16 shares Allegheny Railroad and Coal Co.

16 shares Heaver Valley Oil Co.

28 shares Union Petroleum Co.

355 shares Beaver Valley Oil Co.

28 shares Coal Bidge Improvement and Coal, preferred.

28 shares Coal Ridge Improvement Co.

16 shares Sunbury and Eric Railroad Loan, 7 per cent.

28 shares Griard Life Ins. Annuity and Trust Co.

27 shares Southwark National Bank.

10 shares American Hot Cast Porcelain Co., full paid.

28 shares Renk of North America.

20 shares Renkor Ins. Co.

20 shares Renkor Ins. Co.

21 shares Renkor Ins. Co.

22 shares Renkor Ins. Co.

23 shares Renkor Ins. Co.

24 shares Bank of North America.

25 shares Renkor Ins. Co.

26 shares Heligh Navigation Co.

16 shares Schulyikill Navigation, common.

17 shares Schulyikill Navigation, common.

18 shares Co. D. Monument Cometery.

19 shares Lehigh Navigation Co.

26 shares Schulyikill Navigation, common.

27 shares Schulyikill Navigation, common.

28 shares Renkor Renkord Co.

29 shares Renkord Renkord Co.

20 shares National Bank of Mertery Ferry Co.

20 shares National Bank of Northern Liberties.

Catalogues now ready.

SUPERIOR DUTCH FLOWER ROOTS.

SUPERIOR DUTCH FLOWER ROOTS.

On Wednesday morming,

Dec. 15, at 1' o'clock, one case, comprising an assortment of very choice and superior Japan lities, hyacinths, tulips, crocus, snow drops, etc., worthy the attention of florists and others. From J. A. E. Barnaart, Haarlem, Holland.

ELEGANT DIAMOND AND OTHER JEWELRY, SEPERIOR WATCHES, MUSICAL BOX, OPERA GLASSES, SHIP CHRONOMETER, ETO.

On Thursday,

Dec. 16, at 12 o'clock, at the auction rooms, will be sold, for account of whom it may concern, a large assortment of diamonds, watches, etc., comprising in part—Pair solitaire diamond earrings, weighing six carats; pair do, do, do, about 4 carats; set elegant cluster diamond earrings and pin; several large and fine single stone diamond rings and pins; fine cluster diamond rings and pins; fine cluster diamond rings and pins; pearl necklace; a variety of sets earrings and pins; ladies and gentarings; scarf pins; 20 opers glasses, etc.

Also, 70 ladies' and genta' very superior watches, by the most celebrated makers.

Also, very fine musical bex, six tunes, with drum and bells; superior ship chronometer, made by John Moncas, Londou; surveyor's theodolite, etc.

The above may be examined on Wednesday, from 18 until 3 o'clock, and on the morning of sale.

E13 3t

BUNTING, DURBOROW & CO., AUCTION-BERS, Nos. 232 and 234 MARKET Street, corner of Bank street. Successors to John B, Myers & Co. SALE OF 2000 CASES BOOTS, SHOES, BROGANS, On Tuesday Morning.
Dec. 14, at 10 o'clock, on four months' credit. 12 8 5t LARGE SALE OF BRITISH, FRENCH, GERMAN, AND DOMESTIC DRY GOODS. On Thursday Morning, Dec. 16, at 10 o'clock, on four months' credit. 12 10 54

IMPORTANT SALE OF CARPETINGS, OIL CLOTHS, ETC.
On Friday Morning,
December 17, at 11 o'clock, on four months' credit, about 200 pieces ingrain, Venetian, list, hemp, cottage, and rag carpetings, oil cloths, rugs, etc.

MARTIN BROTHERS, AUCTIONEERS, (Lately Salesmen for M. Thomas & Sons.)
No. 528 CHESNUT Street, rear entrance from Miner. Sale at No. 778 South Tenth street,
HANDSOME WALNUT HOUSEHOLD FURNITURE,
Chickering Piane Forte, Fine Brussels and Ingrain Carpets, China and Gl pets, China and Glassware, etc.
On Tuesday Morning,
Dec. 14, at 10 o'clock, at No. 778 South Tenth street, by
catalogue, the entire handsome walnut household furniture; oiled walnut chamber suits; elegant Chickering
piano forte; extension dining table; sideboard; fine Brussels and ingrain carpets; fine China and glassware; cooking utensils; retrigerator, etc.
May be examined on the morning of sale at 8 o'clock. It

MASON & CO.'S NINTH SALE OF A VALUABLE COLLECTION OF COUNS, Pattern Pieces, Medals, Continental Money, etc.

On Tuesday Afternoon,
At 3% o'clock, at the auction rooms, No. 529 Chesnut-street, by catalogue, 825 lots very valuable Coins. Included will be found:—United States silver dollars of 1834 and 1839; also, 1842, 1851, and 1830; proofs United States cents of 1941, 179, 1804, and 1850; proofs United States cents of 1941, 179, 1804, and 1857; very rare and fine Carolina Elephant cent, 1834; Chalmera' Annapolis three pence, 1783; United States proof sets of silver; pattern pieces; United States medals; political medals; rare Continental and Colonial paper money; rare relics; minerals, etc. als, etc. May be seen on the day of sale,

Sale No. 529 Chesnut street.

ELEGANT WALNUT CHAMBER SUITS; HANDsome Walnut Parlor Suits, covered with fine rops and hair cloth; Fine Large Mirrors; Large and Superior Fire-proof Safes; Elegant Buffet Sideboards; Fine Velvet and Brussels Carpets; Handsome China; Rich Cut Glassware, etc.

Dec. 1b, at 10 o'clock, at the auction rooms, No. 529 Chesnut street, by catalogue, elegant walnut household furniture, etc.

ELEGANT BOOKCASE.

Also, elegant rosswood bookcase, three doors.

Also, elegant resewood bookcase, three doors VALUABLE PATENT RIGHT. On Wednesday, At 12 o'clock M., at the auction rooms, without reserve, the valuable patent right for the United States in an improved Steam Generator.

Model can be seen at the auction rooms. 12 13 25 Model can be seen at the auction rooms.

1213 2t

EXTENSIVE PEREMPTORY SALE OF A. S. ROBINSON'S COLLECTION OF THE FINE ARTS.
VALUABLE OIL PAINTINGS, FINE FOREIGN ENGRAVINGS. ELEGANT DRESDEN ENAMELS, IN HANDSOME FRAMES.
On Wednesday, Thursday, and Friday,
December 15, 16, and 17, at 11 o'clock, at Robinson's Gallery, No. 210 Chesnut street, by catalogue, the entire very large and valuable collections of the fine arts, comprising 400 pictures, and including paintings by such artists as Brochart, of Paris; Bodington, London; Wilson, Glasgow; Hoffer and Schultze, Dusseldorf: Danke, tof Munich; Bonfield, Richards, Moran, and others, of America; fine foreign engravings; elegant Dresden enamels; painted photographs, etc. Each picture is framed in an elegant gold gilt or walnut frame.

The collection will be on free exhibition until sale.

AMPRICAN AETISTS' LARGE PEREMPTORY
SALE OF VALUABLE MODERN OIL PAINTINGS.
On Thursday, Friday, and Saturday.
Dec 17, 18, and 18,
At the auction rooms, No. 525 Chesnut street, a large and valuable collection of Medern Oil Paintings. Among the arrists represented are Paul Ritter, George V. Hartwick, Hart Coates, Stonefield, Lotichious, Van Noy, and others

equally celebrated.

The Pictures are all mounted in elegant gold-gilt frames.

The collection will be on exhibition on TUESDAY, the
lith inst., and on the days of sale.

SALE OF STOCKS AND REAL ESTATE.
At the Philadelphia Exchange, Third and Walnut streets, on Monday, December 20, at 12 o'clock M.
Executor's Peremptory Sale Estate of Ann Murphy, deceased—STORE and DWELLING, S. E. corner of Ridge rand and Green street.
DWELLING, No. 519 Chippowa street, south of Lombard, west of Twenty-sixth street. [12 7 5t] THOMAS BIRCH & SON, AUCTIONEERS
AND COMMISSION MERCHANTS, No. 1116
CHESNUT Street, rear entrance No. 1107 Sansom street.

MARBLE Street, rear substance to the Sansom street.

Sale at No. 1110 Chesnut street.

MARBLE STATUARY, FRENCH BRONZES, GROUPS, ETC.

Wednesday Morning,

Doc. 15, at 10% o'clock, at the auction store, No. 1110 Chesnut street, will be sold, by order of G. B. Pandelfini & Co., elegant Carrara marble statuary, French bronne groups and figures, marble and bronze clocks from the best manufacturers of Paris, stone vases, alabaster statustics, agate vases, Signma taxas and card receivers The sale will be continued in the evening at 7% o'clock.

L IPPINCOTT, SON & CO., AUCTIONEERS,

SCOTCH, IRISH, AND FRENCH EMBROIDERIES,
By order of Mr. ROBERT MACDONALD.
On Wednesday Morning,
Dec. 15, at 10 o'clock, on four months' credit.
Also, 23 pieces fancy dress silks and 8 pieces black
do. 12 13 24

LARGE SPECIAL AND ATTRACTIVE SALE

JET GOODS, NEWEST STYLES DIXONS,

C. D. McCLEES & CO., AUCTIONEERS