ous elevations in the solar atmosphere, or large volumes of incandescent liquid or solid matter sustained in some inconceivable man of the sun.
"But the discovery which had thus been effected—interesting as it is—afforded no in formation at all respecting the peculiarities of structure and arrangement presented by these ped much from the chance which the great clipse seemed to give them of obtaining pho-graphs of the prominences at periods sepa-

sun'spots. According to one theory the spots were due to an uprush of intensely heated gas, dissociating the true polar photosphere, according to the other the spots are due to a downrush of the solar atmosphere, sweeping away or else cooling a portion of the incandescent photosphere. Mr. Lockyer had been able to dispose satisfactorily of M. Faye's theory, by applying the wonderful powers of the spectrum of the spots with that of the photosphere, and he found that each spectrum was raidable than the corresponding lines of the spectrum given by the photosphere. This showed that the atmospheric layers through which the solar, although the sulphurous acid cannot be sulphurous acid cannot be sulphurous acid the sulphurous acid the sulphurous acid the sulphurous acid the sulphurous acid conservation of the spots reaches, us are thicker and denser than those through which the rest of the sulphurous of the sun's light comes; and thus we learn that a downrush of vapor is the true cause of the spectrum of common mordants be employed, at a time the sulphurous acid reduces the bichloride of ammonium—on instead from the sulphurous acid reduces given by the photosphere. This showed that the atmospheric layers through which the rest of the sulphurous acid reduces and the a downrush of vapor is the true cause of the solar spots. In the concluding words of the paper in which this subject was discussed, Mr. Lockyer remarks: 'May not the spectroscope afford us evidence of the existence of the 'red flames' which total eclipses have revealed to us in the sun's atmosphere, although they estape all other methods of observation at other times?' We believe we are safe in saying that this idea was presented to the astronomical world for the first time in these words. Mr.

The observer hoped that when the telescope was directed towards the place where the prominences really were he should see their spectrum—whatever it might be flash out similar results. The 'golden yellow color,' he would the history and be added to the court of the prominence of th

tions. And now, at length, he was rewarded with success. The spectrum of the red sierras and prominences became visible, and he saw that these objects were gaseous. This discovery had already been made by the members of the expedition sent out to view the great eclipse of August 18.

"But the importance of Mr. Lockyer's discovery was scarcely at all affected by this circumstance, since we shall show presently that the observations which can be made by the method are altogether more valuable and significant, than those which were made during the great eclipse. But strangely enough, Dr. Janssen, who commanded the Trench observing party, had forestalled Mr. Lockyer in the application of this very method. It had occurred to him that he eught to be able to see the spectra of the ength of the same and gingerbread men and horses and significant than those which were made during the great eclipse. But strangely enough, Dr. Janssen, who commanded the Trench observing party, had forestalled Mr. Lockyer in the application of this very method. It had occurred to him that he of each to be able to see the spectra of the engage of the same and gingerbread men and horses and significant the same and prominences became visible, and salkalies, by chleride, by the chloride of soda or lime, or peroxide of hydrogen. In general the dyes requiring mordants do not stain the general the dyes requiring mordants do not stain the epidermis."

Bread Making,

The bread-making business has undergone great changes since the days of our fathers since the days of our fathers and or sale by the chloride of soda or lime, or pervision of hydrogen. In general the dyes requiring mordants do not stain the general the dyes requiring mordants do not stain the general the dyes requiring mordants do not stain the general the dyes requiring mordants do not stain the general the dyes requiring mordants do not stain the general the dyes requiring mordants do not stain the general the dyes requiring mordants do not stain the general the dyes requiring mordan ought to be able to see the spectra of the prominences even when the sun was not eclipsed, though the prominences themselves could not then be seen. Whether this idea was original, or whether Dr. Janssen had heard of the suggestion made by Mr. Lockper more than two years ago, does not appear to the providence compelled them to the seen to be able to see the spectra of the sun was not gingerbread men and horses and chestnuts for children—"a cent's worth of yeast," too, fight be bought by those whose pots had unexpectedly failed them, or where the suggestion made by Mr. Lockper more than two years ago, does not appear to the supplementation of the suggestion made by Mr. Lockper more than two years ago, does not appear to the suggestion made by Mr. Lockper more than two years ago, does not appear to the suggestion made by Mr. Lockper more than two years ago, does not appear to the suggestion made by Mr. Lockper more than two years ago, does not appear to the suggestion made by Mr. Lockper more than two years ago, does not appear to the suggestion made by Mr. Lockper more than two years ago, does not appear to the suggestion made by Mr. Lockper more than two years ago, does not appear to the suggestion made by Mr. Lockper more than two years ago, does not appear to the suggestion made by Mr. Lockper more than two years ago, does not appear to the suggestion made by Mr. Lockper more than two years ago, does not appear to the suggestion made by Mr. Lockper more than two years ago, does not appear to the suggestion made by Mr. Lockper more than two years ago, does not appear to the suggestion made by Mr. Lockper more than two years ago, does not appear to the suggestion made by Mr. Lockper more than two years ago, does not appear to the suggestion made by Mr. Lockper more than two years ago, does not appear to the suggestion made by Mr. Lockper more than two years ago, does not appear to the suggestion made by Mr. Lockper more than two years ago, does not appear to the suggestion made to the suggestion made to the sug heard of the suggestion made by Mr. Lockpots had unexpectedly failed them, or whose
pear. Certain it is that a few days before
Mr. Lockyer had successfully applied the
method, Dr. Janssen had shown that the
spectrum of the prominences can be distinctly
seem when the sun is shining with full splendor.
A strange coincidence this, almost as strange
as that which—through no fault of his own—
deprived our great astronomer, Professor
Adams, of priority in the discovery of the
lanct Neptune. But a yet stranger coincidence marked the announcement of the discovery. It is said that only a few minutes
after Mr. De la Rue had stated the nature of ence marked the announcement of the discovery. It is said that only a few minutes after Mr. De la Rue had stated the nature of to the professional baker for the staff of life Mr. Lockyer's discovery before the French Academy of Sciences, Dr. Janssen's letter an-

nouncing the attainment of similar results was placed in the hands of the president. "And now a few brief words on the nature and scope of this interesting discovery. We have seen that what is required for the detection of a prominence by the new method is And now a sew of the control of the detection of a prominence by the new method is the appearance outside the rainbow of a colored streak of light which forms the solar spectrum of the bright line spectrum belongs.

When such a spectrum

When such a spectrum

I rench, music and taxable crammed into everything else that can be crammed into them—even to cake-making sometimes; but bread-making—good, light bread-making—go makes its appearance we know that at that part of the sun's limb (as astronomers call the economical and healthful than the general run of bakers' bread. But bakers are so improving and we know also that the width of the spectrum belonging to the prominence indicates the height of the prominence. Sometimes the spectrum of the prominence is just out the spectrum—then we know that the spectrum—then we know that the prominence is just outside the solar spectrum—then we know that the prominence, if it were visible, would seem to touch the edge of the solar disc at that point. Sometimes the former spectrum stands dear of the latter—then we know that at that point. Sometimes the former spectrum stands dear of the latter—then we know that at that point the red prominence is clear of the solar flie. This city alone supports no—less than one hundred and ubirteen baking establishments, and many of them large enes too. Some of those singular scimetar shaped prominences which have often been observed durbed to the solar spectrum of the prominence may overlap the solar spectrum, and then we know that the flames which cause the former spectrum of the prominence axiend a little upon the edge of the solar spectrum, and then we know that the flames which cause quality.

It is certainly would be a last mineracter from the number of bakers who find remunerative employment in this community, if we had no other means of knowing the fact. This city alone supports no—less than one hundred and the celterative employment in this community, if we had no other means of knowing the fact. This city alone supports no—less than one hundred and the celterative employment in this community, if we had no other means of knowing the fact. This city alone supports no—less than one hundred and the celterative employment in this community, if we had no other means of knowing the fact. This city alone supports no—less than one hundred and the celterative employment in this community, if we had no other means of knowing the fact. This city alone supports no—less than one hundred and the celterative employment in this community, if we had no other means of knowing the fact. This city alone supports no—less than one hundred and the celterative employment in this community, if we had no other means of knowing the fact. This city alone supports no—less than one different particles and the celterative employment in this community, the spectrum of the prominence is just outit. This certainly would be a fair inference from the number of bakers who find remutheir we know that the flames which cause the prominence extend a little upon the edge of the sun's disc. This is a phenomenon which could never become visible even during among bakers than in the method of heating their ovens. These are now made broad and belower symmetry.

R SOMETHING ABOUT HAIR-DYES.

In Regiand, the invention of a new black hair dye, said to be perfect, has produced a long series of commentaries from dermatologists and others qualified to speak. Mr. Erasmus Wilson discusses the whole question in a series of competition. He observes that the hair owes its property of dyeling to its porosity, which is evidently greater than its physical structure, would lead us to infer. Another of its properties—namely, the presence of sulphur in its constitution—renders it prone to darken under the use of certain mineral substances; for example, lead and mercury, whose compounds with sulphur are black. Thus, if a weak solution of lead or mercury, be brushed into the hair, and a dark color will be produced, in consequence of the formation of a series of compounds with a sulphur are black. Thus, if a weak solution of lead or mercury, be brushed into the hair, a certain quantity of the solution will produced, in consequence of the formation of a solution of lead or sulphuret of lead or sulphu

science suggests the means of introducing more sulphur, as is illustrated by the reversal AMERICAN ACADEMY OF MUSIC. of the process in the following quotation from a paper by Dr. McCall Anderson on OLE BULL

common vermillion of commerce.'
The chief constituents of hair dyes are meinllic bodies and walnut-juice. The metals world for the first time in these words. Mr. Lockyer has been anticipated by a brief inter val as respects the application of the method; but no doubt whatever seems to exist as to his having been the first to suggest it.

"Mr. Lockyer applied the spectroscope which he had made use of in the researches already mentioned in seeking around the edge of the solar disc for indications of the existence of the red prominences. The plan was to bring the brilliant solar spectrum into view and then cause it to become harrower and narrower by directing the telescope gradually further towards the edge of the sun's disc.

The observer hoped that when the telescope was directed towards the place where the

spectrum—whatever it might be—flash out beyond the brighter one belonging to the sun. But he was disappointed; the spectroscope he made use of had not the requisite qualities. He then placed the construction of a more effective spectroscope in the hands of Mr. Browning, F. R. A. S., the optician, and so soon as this instrument was placed in his Browning, F. R. A. S., the optician, and so soon as this instrument was placed in his hands—which was not until the autumn of the present year—he resumed his observations. And now, at length, he was rewarded tions. And now, at length, he was rewarded to the red sierras of the re

to the professional baker for the staff of life And we rather think that on the whole the community are gainers by substituting baker's bread for what can ordinarily be gotten from their own kitchens, for bread-baking is all but one of the lost domestic arts of America.

Girls are taught astronomy and algebra, philosophy and physiology, German and French, music and dancing, embroidery and everything else that can be crammed into

tion of lead or mercury be brushed into the hair, a certain quantity of the solution will penetrate the hair, and a dark color will be produced, in consequence of the formation of a sulphuret of lead or sulphuret of mercury. The depth of the shade or color will depend upon the quantity of sulphur present in the hair; and as red hair and light-colored hair contain more sulphur than dark hair, the result will in that case be comparatively greater. But where the amount of sulphur is too minute to produce the dye, science suggests the means of introducing.

ANTUSEMENTS. LIFE OF "BRICK" POMEROY.—The private history, character, public and political ecryices of Mark M. Pomeroy, the well known bold and successful editor of the famous La Crosse Democrat, With a fine steel portrait.

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of the prominences at periods separated by a considerable interval of time. But, so far as is at present known; this hope, has been disappointed. Nor does it, seem at all likely that during any future eclipses so favorable an opportunity will occur. The discourage what promises to be the most perfect covery we have now to deal with makes this disappointment a matter of triffing significance.

"Two years ago Mr. J. Norman Lyckyer in the first application, the hair of, the part, presented to the Royal Society in paper in which he fore was bright rach had been formed by M. Fays on the other, respecting the phenoman of the other, respecting the phenoman of the other, respecting the phenoman of course, as the hair grows the new portions were due to an uprush of intensely ineated according to the other the spots are due to a substant state of the course, as the hair grows the new portions according to the other the spots are due to a substant state; and the manual covery the spots were due to an uprush of intensely ineated a course, as the hair grows the new portions will possess the normal tint. The reason of according to the other the spots are due to a substant state; shown in the solar, atmosphere, sweeping the phenomen of the paper by Dr. McCall Anderson on Ekzenna Marginature of the paper by Dr. McCall Anderson on Ekzenna Marginature of the paper by Dr. McCall Anderson on Ekzenna Marginature.

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COMPANY, OFFICE 227 SOUTH FOURTH ST. Netice is hereby given to the Stockwise of this Company that the snaual resting, and election for President, six Managers, Treasurer and Secretary will take place on the SECOND MONDAY (11th) of January next at 12 M. del5-tjails

FIRST NATIONAL BANK OF PHILADEL-

The Annual Election for Directors of this Bank will be held at the Banking House on Tuesday, the 12th day of Janulary, 1839, between the bours of 32 octock A. M. and 20 clock P. M. MORTON MOMICHAEL, Ju. Cashler, del2t jal2. MORTON MOMICHAEL, Ju. Cashler, Lorentz jalz, and 20 clock P. M. The annual meeting of the Stockholders of the Lornertz Creek Railroad Company will be held at the olice of the Philadelphia and fleading Halload Company, 227 south Fourth street, Philadelphia, on MUNDAY, January 11th, 1869, at 10 octock A. M. when an election will be held for a President and six Directors to serve for the ensuing year. [delbialls] W. H. WEBB, Secty.

EAST MAILANOY RAILROAD COMPANY, OFFICE, 227 SOUTHEROURTH STREET. Apply in the Publication Office. The Annual Meeting of the Stockholders of this Company and an election for officers to serve for the ensuing year will be held at the officer of the Company, on MONDAY, Jan. II, 1869, at 2 o'clock, P. M.

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ALBERT FOSTER.

Secretary. delb-tjall5

ALLENTOWN RAILROAD COMPANY.

Philladellulla Dec. 14, 1853.

The annual meeting of the stockholders of the Allentown Relicod Company will be held at the office of the Philladelphia and Reading Railroad Company. No. 227.

South Fourth street. Philadelphia, on MONDAY, January II, 1869, at 10% o'clock, A. M., when an election will be held for a President and six Directors to serve for the gassing year. suing year.

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These are very desirable rooms, and the location is unsurpassed for business purposes. Apply to

FOURTH STREET
THE Annual Meeting: of the Stockholders of the Mahanoy and Broad Mountain Railroad Company, will be held at the Office of the Company. No. 237 South Fourth street, on MONDAY January 11th, 1829, at one o'clock P. M.; when an election will be held for a President and elx Directors to serve for the ensuing year.

delf-tijalis deistijalia ALBERT FOSTER.

Becretary.

NATIONAL BANK OF THE NORTHERN
LIBERTIES. The Adminal Election for Directors of this Bank will be held at the Banking House on WEDNESDAY, the 12th day of January, 1868, between the hours of 10 o'clock A. M. and 8 o'clock P. M. dell-fin w to jal's W. GUMMERE, Cashier. COMMONWEALTH NATIONAL BANK.

PHISTORICAL THE ADMINISTRATION AT BANK.

PHISTORICAL THE ADMINISTRATION AT BANK.

The appual election for Directors of this hank will be held at the Banking House, on TUESDAY, January 12th, 1889, between the hours of 10 A. M. and 2 F. M. dell-f, m, w, tjal?

H. C. YOUNG, Cashler, GEIT, III, WI, JAI2 B. C. YOUNG, Cashler,
O'LL CREEK AND ALLEGHENY RIVER RAILWAY COMPANY. WAY COMPANY, Conny, Pa., Dec. 9, 1833.

TOR RENT.

The Unusually Desirable Rooms on Second and Upper bloors of Nos. 426 and 428, Market, street. Sxills feet to Merchant street.

Possession January 1.

DICKSON BROS.,

1028. Westife Sylvant and Conny of Street Sylvant and Conny of Sy

WALNUT BIHEET. Punavripma, Dec. 7, 1832.
The Board of Directors of the "The Reliance incurance Company of Philadelobia" have this day declared a
dividend of Four Per Cent, on their carliel stock, for the
rast six months, payable to the Stockholders or their
legal representatives, on demand, free of tares,
des. Rui ThioMan C. Hill, Socretary. GIRARD NATIONAL BANK. GIRARD NATIONAL BANK.

PHILAPELPHIA Ddc. 8, 1885.

The Annual Meeting of the Stockholders for the election of Derectors and for other purpose will be held on WEDNESDAY, the 18th day of January, 1869, at 12 o'clock M. The election will take place between the hours of 16 A. M, and 2 P. M.

W. L. SCHAFFER,

de8 w&stjal2

Cashier.

FOR SALE—THE VALUABLE FOUR-STORY
Brick Residence situate on the coutheast cor. Broad and Spruce streets; 29 feet front on Spruce by 160 feet on Broad street. J. M. GUMMEY & BONS, 723 Walnut street.

FOR SALE—THE HANDSOME MODERN three-story double beld at the Banking House, on WEDN-SDAY, the 12th held at the Banking House, on WEDN-SDAY, the 12th

IN THE ORPHANS COURT FOR THE CITY AND County of Philadelphia,—Estate of JACOB L. FLORENCE, deceased.—The Auditrd appointed by the Court to audit, settle-gab adjust the first and final account of HANNAH FLORENCE, F. H. FLORENCE, E. J. FLORENCE and A. MIN'S, Executors of the last will of JACOB L. FLORENCE deceased, and to report distribution of the balance in the hands of the accountants, will meet the parties interested for the purpose of the appointment, on MONDAY, December 31.1888, at 4 o'clock, F. M., at his office, No. 9. Law Building, 533 Wainut street, in the city of Philadelphia.—The Letter of JOSHUA H. LAME, under the will of JOHN WRIGHT, deceased.—The Auditor appointed by the Court to audit, scathe and adjust the first and final account of. SAMUEL WRIGHT, EDMIND WRIGHT, JOHN WRIGHT and GEUIGHE. EDMIND WRIGHT, JOHN WRIGHT and GEUIGHE. EDMIND WRIGHT, JOHN WRIGHT and GEUIGHE file accountant, will meet the parties increased for the purpose of his appointment, on TUESLAY, the 22d day of December, A. D. 1883, at 3 o'clock, F. M. at his office, No. 768 Wainut street, in the city of Philadelphia.

[IN THE GRPHANS: COURT FOR THE CITY AND INTEREST. Auditor.]

[IN THE GRPHANS: COURT FOR THE CITY AND INTEREST. Auditor.]

[IN THE GRPHANS: COURT FOR THE CITY AND INTEREST. Auditor.] dell f,m,w5i5. RICHAED S. HUNTER, Auditor.

IN THE ORPHANS' COURT FOR THE CITY AND I County of Philadelphia, Estate of LOUIS LAEMMEL, dec'd.—The Auditor appointed by the Court to audit cettle and adjust the first account of CHARLES R. WIGH.

MAN, Administrator of LOUIS LAEMMEL, deceased, and to report distribution of the balance in the hands of the accountant will meet the parties infersted, for the purpose of his appointment, on MONDAY, December 21. 1883, 34:40:dock F.M., at his office, No. 13 South Fifth attest in the city of Philadelphia.

MM. L. DENNIS, dell f m w 5ts dell f m n 5t8

WALDUT AND PINE,

SEASONED POPLAR,
SEASONED POPLAR,
SEASONED CHERRY,
ASH.
HICKORY.

CIGAR BOX MAKERS,
CIGAR BOX MAKERS,
ANIBH CEDAR BOX MAKERS,
ANIBH CEDAR BOX BOARDS.

ANIBH CEDAR BOX MAKERS,
CAROLINA SCANTLING.
CAROLINA SCANTLING.
CAROLINA BCANTLING.
CAROLINA BCANTLING.
CAROLINA H. T. SILLIS.

TWO FING CIGARS, West Philadelphia.
Two three-story Dwellings, Kensington.
ANIBH CENTRAL, West Philadelphia.
The Dwellings, With Stekensington.
ANIBH CENTRAL ENTATE

Brokers, have removed to No. 763 Walnut street.

STORAGE

TOND.—The Auditor appointed by the Court to audit.
FILE OICHANS COURT FOR THE CITY AND POND.—The Auditor appointed by the Court to audit.

STORAGE

STORAGE

TOND.—The Auditor.

STEVENSONS. REAL ESTATE

FOR SALE LOW.

STORAGE

TOND.—The Auditor.

STEVENSONS. REAL ESTATE

FOR SALE LOW.

STORAGE

TOND.—The Auditor.

TOND.—The dell f,m,wfit; JOHN C. REDHEFFER, Auditor.

IN THE ORPHANS! COURT FOR THE CITY AND LOunty of Philadelphia,—Estate of PRISCILLA ROBERTS, deceased—The Auditor appointed by the Court to audit, settle and adjust the first and final account of MARK WATSON, Executor of PRISCILLA ROBERTS, dec'd, and to make distribution of the bal ance in the hands of the accountant, will meet the parties interested for the purposes of his appointment, on TUESDAY, Doc. 22, 1868, at 35, o'clock P. M., at his office, S. E. corner Sixth and Walmut streets, in the City of Priladelphia, dell f m y 85. sixth and Walmut streets, in the City of Philadelphia.

dell f m y 5t*

W. J. Moellroy, Auditor.

IN THE ORPHANS COURT FOR THE CITY AND
A COUNTY OF PHILADELPHIA.—Estate of HEMRY
D. GILPIN, deceased. The Auditor appointed by the
Court to audit settle and adjust the fourth account of
ELIZA GILPIN, CHARLES MAGALESTER and
CHARLES GILPIN, Executors and Trustoes of said deceased, and to report distribution of the balance in the
hands of the accountant, will meet the parties interested
for the purpose of his appointment, on WEDNESDAY,
December 37d, 1858 at 110 'clock, A. M., at his olices S. E.
Walmut and Sixth street, 2d story, in the city of Philadelphia
dell f in w5t*

Letters

Testamentary upon the Estate of CASPER SOUDER,
Jr., deceased, having been granted to the undersigned by
the Register of Wills of Philadelphia, all persons indebted
to said estate are requested to make payment, and those
having claims or demands against it to make known the
same, without delay, to RaCHEL A. SOUDER, Executrix, No. 579 North Soventh street, Phila.

Tythe District Court of the United States

Tythe District Court of the United States

Tythe District Court of the United States

trix, No. 8:9 North Soventh street, Phila. deg, weisy

IN THE DISTRICT COURT OF THE UNITED STATES
I. for the Eastern District of Pennsylvania.—In Bankruptcy.—At Philadelphia, November 80th, 1858.—The undersigned bereby gives notice of his appointment as: Assignee of HENRY SHILL, late of the firm of JOHN
BHILL & SONS, of Philadelphia, in the county of Philadelphia, and State of Pennsylvania, within said District,
who has been adjudged a Bankrupt upon his own petition
by the District Court of said District.

Of IRVINE WHITEHEAP, Assigned.
No. 618 Walnut street, Philadelphia,
To the Creditors of said Bankrupt. deg w8t* ESTATE OF WILHELMINA GIBSON (LATE EP-Liey, deceased Letter testamentary to the above cetate having een granted to the undersigned, all persons indebted to sale estate will make payment, and those having claims will eresent them, without delay to J. S. MoM LLIN, Executor, or to bis. Attorney, J. AUSTIN SPENCER, 423 Walnut street. SPENCER, 423 Walnut street. no25-w,612.

I ETTERS TESTAMENTARY HAVING BEEN I grant-d to the subscribors upon the estate of NA, THAN BROWN, deceased, all persons indebted to the same will make payment, and those having claims present them to THOMAS, BROWN, 702 South Tenth, street, JAMES IRWIN, 239 Dean street, or to GEORGE JUNKIN, 1840, their Atterney, S.E. corner Sixth and Walnut streets. SADDLES, MARNESS, &c.



USEFULNESS OF EARTHQUAKES. rarely acts with sufficient energy to produce | Willie. He pushed her into a ditch and ran.

bellower oils. "Bits the nontability design." In the street content of the property of the street of the property of the property of the street of the property of the property of the street of the property of t

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ing at No. 2006 Wallace Breet, in the said city of Fails delphia.

4. The amount of capital contributed to the common stock by said Special Partner is kifty Thousand (850,000), Dollars in cash.

5. The said partnership is to commence on the first day of December, A. D. 1888, and is to terminate on the first day of January, A. D., 1871.

HENRY R. KIBBE.

WILLIAM Y. COLLADAY.

CLINTON J. TROUT.

General Partners.

JOSEPH C. ROUP.

de5 1mo.