ADVERTISING RATES.

	3t.	1 mo.	3 mos.	6 mos.	1yr.
One Square	1.50	1.75	3.50	6.50	12.00
Two Squares	3.00	3.50	6.50	9.00	21.00
Three Squares	4.50	5.25	9.00	17.00	25.00
Six Squares		11.50	17.00	25.00	45.00
Quarter Column		13.50	22.00	40.00	60.00
Half Column		20.00	40.00	60.00	110.00
One Column		30.00	60.00	110.00	200.00

Professional Cards $1.00 per line per year.
Administrator's and Auditor's Notices, $3.00.
City Notices, 20 cents per line 1st insertion, 15 cents per line each subsequent insertion.
Ten lines agate constitute a square.

ROBERT IREDELL, JR., PUBLISHER,
ALLENTOWN, PA.

The Lehigh Register.

VOL. XXIV. ALLENTOWN, PA., WEDNESDAY MORNING, MARCH 2, 1870. NO. 9.

ROBERT IREDELL, JR.,
Plain and Fancy Job Printer,
No. 45 EAST HAMILTON STREET,
ALLENTOWN, PA.
ELEGANT PRINTING!
NEW DESIGNS & LATEST STYLES
Stamped Checks, Cards, Circulars, Paper Books, Constitutions and By-Laws, School Catalogues, Bill Heads Envelopes, Letter Heads Bills of Lading, Way Bills, Tags and Shipping Cards, Posters of any size, etc., etc., Printed at Short Notice.

Coal and Lumber.

FROW, JACOBS & CO.,
WHOLESALE DEALERS IN
ROUGH & WORKED LUMBER,
SASH DOORS AND BLINDS,
WILLIAMSPORT, PA.
☞ Orders from the trade solicited sep 15-1y

A. FILBERT. B. OTTO. H. M. OTTO. G. W. MILLER.
FILBERT, OTTO & MILLER,
MANUFACTURERS AND DEALERS IN
LUMBER,
WILLIAMSPORT, PA.
MILL ON CANAL, WEST OF MAYNARD STREET.
OFFICE AT THE MILL.
W. F. CRANE, AGENT. 4, aug 69-1y

REMOVAL!
SMITH & OSMUN'S
COAL AND WOOD YARD!
The above Coal and Wood Yard has been removed to the east end of the Jordan Bridge, SOUTH SIDE, where will be constantly kept a fine and full supply of
Egg, Stove Nut and Chestnut Coal,
selected from the best mines in the country.
OUR COAL
is under cover—and it is to the interest of every one to purchase
DRY AND SCREENED COAL
☞ A large stock of all kinds of good Wood constantly on hand, and delivered to all parts of the city at the lowest market prices.
BRANCH YARD.—A branch yard is kept at the Lehigh Valley Depot, known as the former yard of Lentz and Hecker.
☞ THIS IS THE PEOPLE'S COAL YARD. ☜
Our Coal is selected from the best mines in the Lehigh region, and knowing this to be the fact and that it will give perfect satisfaction, there is no use in offering to refund the money. All we ask is a trial. Orders taken at Dosch's hat st. re.
FRANKLIN SMITH, WILLIAM OSMUN
july 14th

COAL CONSUMERS,
LOOK TO YOUR INTEREST!
P. H. STELTZ
Hereby informs the citizens of Allentown, and the public in general, that he is prepared to furnish all kinds of
COAL,
from his well stocked Yard, formerly H. Guth & Co.'s, at the Lehigh Basin, in the City of Allentown, where he will constantly keep on hand a full supply of all kinds of Coal, at the very lowest market prices. His coal is nice and clean, from the very best mines, and in quality superior to any offered in Allentown.
He will sell Coal by the CAR LOAD, at very small profits, as he intends to do business upon the principle of "Quick Sales and Small Profits." Give him a call, and upon comparing prices you can judge for yourselves.
He will deliver Coal upon call to any part of the City upon orders being left at the Yard, or Weinsheimer's store
mar 31-tf P. H. STELTZ.

REMOVAL.
TREXLER & BROTHERS,
DEALERS IN ALL KINDS OF
LUMBER,
Hereby announce to their friends and patrons that they have just removed from their old stand to their
NEW YARD
near the corner of Tenth and Hamilton streets, formerly occupied by Brauss & Miller, as a Lumber Yard, where they will constantly keep on hand a large and seasoned stock of
LUMBER,
such as all kinds of
PINE, HEMLOCK, CHESTNUT, POPLAR, SHINGLES, PICKETS, LATHS, &c.
In fact everything usually kept by the trade.
☞ All kinds of lumber cut to order at short notice.
Thankful for past favors, we trust our friends, as well as the public in general, will give us a call at our New Yard, where we will use our best endeavors to render satisfaction both as regards quality and prices. foct 23'68-tf

TO CONTRACTORS AND BUILDERS.
The undersigned is prepared to contract for furnishing
SASH, BLINDS, WINDOW FRAMES, DOOR FRAMES: SHUTTERS.
And all kinds of building lumber Agent for
HOPE SLATE COMPANY'S LEHIGH SLATE.
Wholesale and retail dealer in the
CELEBRATED CUCUMBER PUMP.
Orders left at the EAGLE HOTEL will receive prompt attention. Post office address,
WM. H. BERLIN,
oct 30 '65 Quakertown, Bucks Co., Pa. sep 22-1y

REVIVAL!!
The subscribers having leased the "Old Hope Coal Yard," would respectfully announce to the citizens of Allentown and the public in general, that they have just got
IN
a superior assortment of
COAL
Consisting of Stove, Egg, Chestnut and Nut from the BUCK MOUNTAIN MINES.
Orders left with A. A. Huber, Steger & Hottenstein, at the Eagle Hotel, Hope Rolling Mill, or the Yard, will be attended to in a
BUSINESS
like manner.
Orders for Coal by the car filled at short notice and at the lowest prices.
Always on hand a large stock of
BALED HAY,
which will be sold at the lowest market prices.
L. W. KOONS & CO.,
at the "Old Hope Coal Yard,"
Hamilton Street, corner of Lehigh Valley Railroad,
ALLENTOWN, PA.
L. W. KOONS. R. E. DONAGHY.
oct 27 —1y

STANDARD NOVELS.
OF THE BEST AUTHORS
IN PAPER COVERS,
FROM 15 CENTS UPWARDS.
JUVENILE AND TOY BOOKS,
AMERICAN AND LONDON,
FROM FIVE CENTS UPWARDS.
Writing Desks,
EVERY STYLE AND PRICE.
A NEW STOCK OF
Pocket Knives,
OF VARIOUS PRICES.
BEAUTIFUL PORT-MONNAIES, POCKET BOOKS, LADIES' WORK BOXES and COMPANIONS, and every imaginable article kept in a fancy goods and stationery store.
AT
IREDELL'S BOOK STORE,
45 EAST HAMILTON STREET,

Window Shades.

H. A. STEEL,
UPHOLSTERING,
WINDOW SHADE & BEDDING STORE,
No. 46 North Ninth Street,
PHILADELPHIA.
WINDOW SHADES,
With fixtures complete, from $2.00 a pair, up to $15.00.
WHITE HOLLAND SHADES AT ALL PRICES.
SHADES OF ANY STYLE AND COLOR MADE TO ORDER.
STORE SHADES MADE AND LETTERED.
LACE AND DRAPERY CURTAINS.
ALL KINDS OF WINDOW DRAPERY
PATENT MOSQUITO CANOPIES.
GILT, ROSEWOOD AND WALNUT CORNICES.
CURTAIN BANDS, TASSELS, CORD, &c.
FURNITURE STRIPS CUT AND MADE.
STAIR AND VESTIBULE RODS.
FURNITURE RE-UPHOLSTERED AND VARNISHED.
Carpets and Mattings, old and new, made, altered and put down.
UPHOLSTERERS' MATERIALS OF EVERY DESCRIPTION AT WHOLESALE
A NEW THING.
SILK FINISHED WINDOW SHADES.
oct 13-1y

I. E. WALRAVEN,
MASONIC HALL,
NO. 719 CHESTNUT STREET,
is now receiving his Fall importations, consisting in part of
CURTAIN MATERIALS,
In Silk, Mohair, Worsted, Linen and Cotton, embracing many novelties.
Lace Curtains!
of Parisian, St. Gallen and Nottingham make.
CORNICES AND DECORATIONS
of new and original designs.
WINDOW SHADES,
by the thousand or single one at manufacturers' prices.
MUSQUITO CANOPIES.
Closing out at reduced prices.
oct13-1y

Carpets and Oil Cloth.
FLOOR OIL CLOTH,
4-4, 5-4 and 8-4 in New and Elegant Designs *still Lower in Price.*
KRAMER'S "OLD CORNER."

CARPETINGS!
AT OUR NEW AND ELEGANT STORE,
635 MARKET STREET,
A full stock for Spring Sales of
AXMINSTERS,
VELVETS,
BRUSSELS,
TAPESTRY,
INGRAINS,
VENITIANS,
MATTINGS,
OIL CLOTHS, &c.
LEEDOM, SHAW & STEWART,
635 MARKET ST., PHILADELPHIA
jan 19-4m

RICH AND ELEGANT
CARPETS, OIL CLOTHS, &c.
S. C. FOULK
Has resumed the
CARPET BUSINESS
AT 19 S. SECOND ST., PHILADELPHIA,
(Between Market and Chestnut Sts.,)
With a full assortment of VELVET, BRUSSELS, THREE PLY, INGRAIN and VENETIAN CARPETS, Oil Cloth, Window Shades, &c., at reduced prices. sep 15-1y

Fire Proof Safes.

HERRING'S
PATENT MAMMOTH
FIRE AND BURGLAR PROOF
SAFES
(WITH DRY FILLING.)
Awarded the Prize Medals at World's Fair, London, World's Fair, New York, Exposition Universelle, Paris.
FARREL, HERRING & CO
HARVEY GILLAM, CHAS. MATHEWS, GEO. W. MYERS.
629 CHESTNUT STREET,
PHILADELPHIA.
HERRING, FARREL & SHERMAN, NEW YORK.
HERRING & CO CHICAGO
HERRING, FARRELL & CO., NEW ORLEANS.
apr 14

WATSON'S CELEBRATED FIRE
AND BURGLAR PROOF
SAFES.
ESTABLISHED IN 1843.
THE OLDEST SAFE HOUSE IN PHILADELPHIA.
The only Safes with Iron Doors.
Guaranteed Free from Dampness.
Also prices from 15 to 30 per cent. lower than other makers. Please send for Circular and Price List.
T. WATSON & SON.
Late of Evans & Watson, Manufacturers,
oct 7-6m No. 53 S. Fourth St., Philadelphia.

R. M. ROBINSON & CO.,
(Successors to Wm. G. Militzer,)
IMPORTERS, MANUFACTURERS & FURNISHERS OF
MILITARY, CHURCH, SOCIETY,
THEATRICAL GOODS, FLAGS, BANNERS, BADGES, ETC.
NO. 131 NORTH THIRD STREET,
PHILADELPHIA. dec 1-1y

Life Insurance.

THE
AMERICAN
LIFE INSURANCE COMPANY,
OF PHILADELPHIA.
ALEX. WHILLDIN, President. J. S. WILSON, Secretary.

GROWTH OF THE AMERICAN:

Date.	No. of policies.	Amt. insured.
1850, Dec. 31,	991	$1,090,450 00
1861, Dec. 31,	1120	$1,200,000 00
1867, Dec. 31,	7030	$18,315,478 30
1868, Dec. 31,	10,282	$24,759,901 50

The AMERICAN issues policies on all desirable plans, at low rates, and for security and promptness in meeting losses is unsurpassed by any Company in the United States.

BOARD OF TRUSTEES:
HON. JAMES POLLCOCK, Ex-Gov. of Penna., Director U. S. Mint.
J. EDGAR THOMSON, Pres. Penna. R. R., 238 S. 3d St.
GEORGE NUGENT, Gentleman, residence, Germantown.
ALBERT C. ROBERTS, President Fourth National Bank
PHILIP B. MINGLE, Seed Merchant, 103 Market St.
HON. ALEX. G. CATTELL, U. S. Senator, Merchant, 27 North Water Street.
ISAAC HAZLEHURST, Attorney-at-Law, 526 Walnut St.
L. M. WHILLDIN, Merchant, 20 and 22 South Front St.
HENRY K. BENNETT, Merchant, 712 South Fourth St.
GEORGE W. HILL, President Seventh National Bank.
JAMES L. CLAGHORN, Prest. Commercial Nat. Bank.
JOHN WANAMAKER, Oak Hall Clothing House, S. E. Cor. 6th & Market Sts., and 818 & 820 Chestnut Street.
WM. J. ROMIG, M. D., Agent,
☞ EAST HAMILTON ST.,
oct 7-tf Allentown, Pa

WORLD MUTUAL
LIFE INSURANCE CO.,
NO. 160 BROADWAY, N. Y.
GEORGE L. WILLARD, *President.*
W. S. TISDALE, *Vice President.*
H. V. GAHAGAN, *Secretary.*
Table showing 1st, The amount of Total Realized Assets. 2d, The amount of Insurance Liabilities. 3d, Per Centage of the former to the latter, of New York Life Insurance Companies, more than three months old, compiled from the New York Insurance Commissioners' Report for 1869.

Date Incorp.	Name of Co.	Total Cash Realized Assets.	Ins. Liab.	Per Ct.
1842	Mutual Life	$25,717,920 32	$22,183,671 49	81.055d
1843	New York Life	8,646,456 59	8,036,430 84	1.0046
1850	United States Life	2,670,142 91	2,492,814 80	.8304
1850	Manhattan Life	2,638,351 79	3,094,030 56	.7142
1853	Knickerbocker	1,143,316 03	4,149,940 00	.2755
1859	Equitable	6,483,976 34	6,903,398 00	.9390
1849	Guardian	276,803 22	1,212,612 00	.2282
1860	Washington	1,304,042 73	1,096,822 33	1.0187
1860	Home	894,638 41	1,590,735 81	.5692
1860	Germania	2,111,464 83	2,007,184 66	1.0518
1862	Security	307,414 23	1,516,563 63	.2028
1862	North America	1,645,381 80	3,339,621 83	.4847
1863	National	147,583 71	356,649 14	.4140
1864	Globe	1,297,471 89	1,391,791 57	.9324
1864	Brooklyn	660,059 39	873,426 09	.6336
1864	Widows & Orphans	929,922 09	815,554 54	1.1403
1865	Universal	346,193 91	330,274 70	1.0486
1866	Great Western	129,249 28	195,378 68	.6615
1866	Atlantic Mutual	215,151 76	279,708 27	.7692
1866	Continental Life	618,762 14	1,956,822 27	.3160
1866	American Popular	145,566 92	207,278 67	.7024
1866	World Mutual	215,497 14	159,033 63	1.355

Average per centage of realized cash assets to total assets of the New York Insurance Companies, December 31, 1868 ..... .8334
Per Centage of the World Mutual ..... .7454
Average of losses paid to total income of the New York Life Insurance Companies 14.58
Per Centage of the World Mutual 11.78
Average of losses to amount insured of the New York Insurance Companies ..... .82
Per Centage of the World Mutual ..... .45

ALLENTOWN, November 17th, 1869.
MARTIN KEMMERER, ESQ., Allentown, Agent of the World Mutual Life Insurance Company of New York.
Dear Sir:—Permit us to thank you for the prompt manner in which you have collected for us the $5000 insured in your Company on the life of Daniel H. Kemmerer, our husband and brother. We are truly thankful to you for having persuaded him two years ago to make this wise provision for the wants of his family. *Then* he was in the enjoyment of excellent health, with a past life and family record both indicative of many years of usefulness in our midst, and to us then this provision seemed almost useless and unnecessary. But Providence, in the wisdom which is so often hard for us to understand, ordained otherwise, and from a severe attack of Typhoid Fever in April last he never entirely recovered, but continued sinking until his sufferings were ended, and he departed this life a few weeks ago. Always careful of his loved ones, this provision for their needs recalls to us anew his forethought and love, and from the midst of our grief and tears we would thus publicly testify to the value of Life Insurance, and to the reliability and promptness of the World Mutual Life, which you represent, in particular. May this example be the cause of many imitating the example of our departed loved one's care and forethought, and likewise insure *at once*, for no one knows the day or hour in which they may be taken sick or called away, and thus be prevented from insuring.
AMANDA KEMMERER, widow.
REUBEN H. KEMMERER, brother,
Administrators.

J. E. FRUEAUFF,
General Agent for the State,
No. 5 North Queen St., Lancaster, Pa.
MARTIN KEMMERER,
dec 1-3m Agent for Lehigh County, Allentown.

THE OLD ALLENTOWN CHINA AND GLASSWARE STORE STILL AHEAD OF ALL COMPETITION.
Fifteen years experience and means to buy not only for cash but during the seasons and times of most advantage, enables the proprietor to offer goods at lower prices than those not having those advantages. I return my sincere thanks to the people of this city and Lehigh and adjoining counties for appreciating these facts by their constantly increasing patronage. Necessitating various enlargements of our store, the last of which but recently completed, gives us now about twenty-one hundred feet of shelving one foot wide. Nearly half a mile of shelving twelve inches wide, well filled with goods, besides large quantities on the floor. It is very evident there are no two stores in the county put together have such a stock as this or the trade requiring it. It is therefore the interest of all to call and examine the goods and prices at this store before buying elsewhere. The proprietor being fully conscious of his advantages, will not under any honorable circumstances permit any person to undersell him in these goods. Such things may be pretended by those having no knowledge of the business, and may find bragadocia and humbug a convenient article to hide their deficiencies in other respects, but it will not bear the inspection of a discerning public. Our goods are of the latest and most improved patterns, our heavy sales requiring almost an entire renewal of stock two or three times annually, thus preventing the possibility of old stock on hand. As I am now selling off preparatory to retire from active business, greater inducements than heretofore are offered in the price of goods to all buyers, at the China Store, 37 E. Hamilton St., nearly opposite the German Reformed Church.
jan 5-1y T. C. KERNAHEN.

S. P. NEWHARD, WITH
S. R. ENGLEMAN,
DEALER IN
CHINA WARE,
BELGIAN & BOHEMIAN GLASSWARE,
LAVA WARE.
PARIAN MARBLE OF ALL DESCRIPTIONS.
NO. 4 WEST HAMILTON ST.,
ALLENTOWN, PA.
dec 22-3m

BRADBURY'S AND OTHER
PAINOS,
$300 AND UPWARDS.
TAYLOR & FARLEY'S AND E. P. NEEDHAM & SON'S
ORGANS AND MELODEONS,
$50 AND UPWARDS.
WM. G. FISCHER,
General Wholesale Agent,
1012 ARCH St. and 21 N. ELEVENTH St.
15dec-3m Philadelphia.

Dry Goods.

SEASONABLE SPECIALTIES
IN
BLUE AND COLORED DRESS SILKS,
PLAIDS,
POPLINS,
REPPS,
PAISLEY AND BROCHA SHAWLS,
BLANKET SHAWLS,
WATER PROOF FOR SUITS,
WHITE AND COLORED BLANKETS,
&C., &C., &C.
Embracing the most complete stock of Dry Goods at
POPULAR LOW PRICES.
It will be to your interest to examine my stock before purchasing elsewhere.
Respectfully,
M. J. KRAMER,
"OLD CORNER."
oct 20

SEAMAN & TRAEGER.
17 SOUTH MAIN STREET,
BETHLEHEM.
BLACK Gros Grain SILKS, BLACK DRAB D'FRANCE SILKS, BLACK TAFFETA SILKS. The *largest* and *cheapest* assortment of SILKS we have ever had the pleasure of offering the Public.
SEAMAN & TRAEGER.
CHOICE NEW STYLES FANCY SILKS,
SEAMAN & TRAEGER.
FRENCH SILK POPLIN, MARBLE POPLINS, PLAIN POPLINS.
SEAMAN & TRAEGER.
BLACK ALPACAS, in all grades, from the lowest numbers to the finest Mohairs.
SEAMAN & TRAEGER.
COLORED ALPACAS, all prices, very cheap.
SEAMAN & TRAEGER.
DRESS GOODS in every variety of Plain and Fancy Styles.
SEAMAN & TRAEGER.
BLEACHED and UNBLEACHED SHEETINGS and SHIRTINGS in very large assortment CHECKS, TICKINGS and DENIMS.
SEAMAN & TRAEGER.
SHAWLS. Large and extensive assortment of BLACK THIBET, BROCHE and PAISLEY, BLANKET, CHEMILLE, MISSES', in great variety of size and colors.
SEAMAN & TRAEGER.
SPECIAL ATTENTION is requested to our elegant and complete line of LADIES' DRESS TRIMMINGS, consisting in part of *BULLION and TASSELS, FRINGE, REAL GUIPURE and BRUSSEL LACE, GIMPS, BRADS, NEW STYLE FLUTED TRIMMING, &c.* BUTTONS in several hundred different styles.
SEAMAN & TRAEGER.
HOSIERY, GLOVES, UNDER CLOTHING for LADIES', CHILDREN and GENTLEMEN. WOOLEN YARNS, &c.
SEAMAN & TRAEGER.
FLANNELS, all widths, *Red, White, Blue, Mixed,* and *Plain. Real Genuine Home-made Flannel.*
SEAMAN & TRAEGER.
ZEPHYR WORSTED, GERMANTOWN WOOL, CASHMERE YARNS, EMBROIDERED WORSTED WORK, and a full assortment in that line.
SEAMAN & TRAEGER.
BY MAIL we send samples of any goods capable of being sent by sample through the mail with prices attached to each piece. We find this to be a great convenience to parties unable to personally visit us.
SEAMAN & TRAEGER.
FAMILY GROCERIES, Staple and Fancy, nicely kept, temptingly gotten up and of the Best Qualities.
SEAMAN & TRAEGER.
CROCKERY, everything required in that line for housekeeping purposes.
SEAMAN & TRAEGER.
Tubs, Pails, Buckets, and all sorts of Wooden Ware used in Housekeeping.
SEAMAN & TRAEGER.
All kinds of Country Produce taken in exchange for goods at the highest prices.
SEAMAN & TRAEGER.
We are endeavoring to keep a full line of every article in the way of *Dry Goods, Small Wares, Notions, Groceries, Crockery, Wooden Ware*, and in fact everything (except Carpets) to be found in a retail store.
SEAMAN & TRAEGER.
MAIN STREET,
BETHLEHEM.
sep 22

FURNITURE.
JOSEPH WALTON & CO.,
CABINET MAKERS,
No. 413 WALNUT ST., PHILADELPHIA.
Our establishment is one of the oldest in Philadelphia, and from long experience and superior facilities we are prepared to furnish good work at reasonable prices.
We manufacture fine furniture, and also medium-priced furniture of superior quality. A large stock of furniture always on hand. Goods made to order.
Counters, Desk Work and Office Furniture for Banks, Offices and Stores, made to order.
JOS. WALTON. J. W. LIPPINCOTT. JOS. L. SCOTT.
feb 9-1y

THE SECOND STREET FURNITURE STORE.
337 N. SECOND ST., PHILA.
The Old Stand established twenty years, triumphant in FURNITURE.
During the recent depression in business, we laid in for cash, cheapest and best assorted stock in the city, which we are selling at reasonable prices. New Patent Sofa Bedsteads which makes a good bed at night, suitable for sick room or office.
COTTAGE and WALNUT CHAMBER SUITS. Straw, Husk, Excelsior and Straw Mattresses.
☞ *Parlor Suits Upholstered in any style to suit purchasers.*
IVINS BROS.
feb 9-1y 337 N. SECOND St., 4th. Vine, East side.

THE CORNELL IRON WORKS.

IRON IN ARCHITECTURE—THE ACHIEVEMENTS OF TWENTY-THREE YEARS—AN EIGHT-ACRE ESTABLISHMENT—THE FOUNDRIES, YARDS, AND SHOPS ON TWENTY-SIXTH AND CENTRE STREETS.

In February, 1847, two young, skillful, and energetic mechanics, John B. and William W. Cornell, began the manufacture of ironwork for building purposes, in a little wooden shop at No. 143 Centre-st., with but a single assistant and a capital of $1,000. Since that period, and especially in the last decade, the use of iron in architecture has not only advanced with rapid strides, but the Cornell brothers, by dint of integrity, enterprise and perseverance, have attained both to liberal fortune and to an honorable place among "artisan princes." To-day their active capital is over a million dollars, and their payrolls bear the names of 900 workmen, whose wages amount to more than $12,000 weekly, while the insignificant foundery of 1847 has grown into a fine, five-story iron-fronted building, and expanded till it covers two-thirds of the whole block. Moreover, the expansion of their business compelled in 1860, the employment of extensive founderies and shops on Twenty-fifth and Twenty-sixth-sts., and the lease, within the last six months, of the entire square bounded by Twenty-sixth-st. and Twenty-seventh-sts., Eleven-ave. and the North River. To-day the Cornell "*Iron-University*" covers eight acres, furnishes a regiment of mechanics with constant employment, and turns out every year thousands of tons of iron work.

As early as 1847 but little iron was used in building, and the $1.500 worth of work furnished by the Cornells for Samuel Howland's store on Broad-st. was the largest architectural iron undertaking of the season.

About this time the question of using wrought iron girders in buildings was agitated and in 1848 the Government architect, then building the Custom-House at Savannah, wrote to the Cornells, asking if they could make wrought iron girders not more than two feet in depth and yet strong enough to sustain an estimated weight of 40,000 pounds. Hopeless as this seemed, the return mail carried an offer to furnish the girders, and the work was successfully accomplished. Next year similar girders were furnished for Bowen & McNamee's extensive dry goods store on Broadway. In 1850, the idea of making buildings fire-proof by the use of wrought iron beams and brick arches, began to be entertained, and the Cornells proposed a plan and executed the work for a structure of this kind for the Atlantic and Sun Mutual Insurance Companies. During the next two years they supplied the iron for the Seaman's Savings Bank, and the brown-stone Court building in the Park. In 1853, Paul N. Spofford and others erected a large fire-proof sugar refinery, for which the Cornells furnished $130,000 worth of work, that being the largest amount of iron ever put into one building in this country up to that time. During this and the five following years large quantities of work were furnished by the Cornells for a variety of buildings in the city. Iron had now come to be recognized as a necessary building material, wherever first-class work was desired, and large orders came pouring in. In 1860 the firm was principally occupied in erecting A. T. Steward's store on Tenth-st., which is built entirely of iron; and in 1860 and 1861 they had extensive contracts with Wm. B. Astor and Claflin, Mellon & Co., besides supplying the iron for the Third-ave. Railroad Depot. In 1862 and 1863 large amounts of iron work were furnished to the United States Navy Department for war vessels, including especially the turrets and turret machinery for the ironclads Miantonomah and Tonawonda. In 1865 the firm supplied more than $325,000 worth for the Stock Exchange, including the burglar-proof safes with complicated locks for the safety-deposit vault. Among the principal structures for which the Cornells have filled large contracts during the last three years are the *Herald* Building, the Park Bank, the New York Life Insurance Building, and the fine stores erected on Broadway by Arnold & Hoyt and Lake & McCreery. The new five-story fire-proof store on Union-square and Fifteenth-st., which the Cornells have nearly completed for Tiffany & Co., will probably be the finest specimen of iron architecture in the United States. There are upward of 10,000 distinct castings in the walls and inside columns of this building, varying in weight from half a pound to more than three tuns, and including beautiful Corinthian capitals, each composed of more than 70 disinct pieces. The firm is also now employed in getting out the large amount of iron work required for Mr. Stewart's Grand Hotel for working women on Fourth-ave. and Thirty-second-st.

The Cornell founderies on Twenty-sixth-st., where iron is converted into an admirable substitude for brick and marble, are in a malodorous manufacturing locality abounding in goats and ragged urchins. The principal establishment covers 35 city lots, extends 425 feet on Twenty-sixth-st., and runs 200 feet across the block to Twenty-fifth-st., on which it has frontage of 450 feet. This area includes a high-walled yard for the storage of stacks of pig-iron and old "flasks" (rough, wooden boxes in which molds are made), a corrugated iron shed containing heaps of molding sand, and a compact cluster of 13 brick buildings of various sizes, some of them lately erected, and others worn, battered and smoke-stained. The work is included in four departments—pattern-making, molding, chipping, and finishing.

Thirty or forty skilled pattern-makers occupy the two upper stories of the main building on Twenty-sixth-st., and a dozen or more flask-makers work in a good sized shop on the ground floor. About a thousand feet of spruce, worth $30, are daily converted into flasks, and about 300 feet of the best white pine, worth $70 a thousand, are also consumed for patterns.

Each pattern is varnished with a mixture of alcohol and shellac, and, after being used is stored away with the 50,000 or 60,000 others which have already been accumulated. The finer arved patterns are made by a firm of woodworkers in Centre-st., and in these cases one of the first castings is frequently used as a pattn. The pattern department in a "house-work foundery is one of unusual difficulty and importance, and the Cornells have invested at least a quarter of a million dollars in this branch alone.

Thiron used in moulding is a mixture of the best Scotch and American pig, about two-fifths being of foreign manufacture. Very little scrap-iron is used. There are two furnaces with a combined melting capacity of about 65 tuns. The 200 molders begin work in the morning, and about 3 in the afternoon the blast is turned on and the molds are soon filled. The molding material is moist "green sand," which is cheaper, though somewhat more risky than the old sand and loam ordinarily employed. As early all the castings are hollow an unusual number of "cores" are necessary. These are made of nine parts white beach sand, with one part damaged flour, baked in ovens overnight. The heaviest castings are the huge and unwieldy columns or "shells", which sometimes weigh six or eight tuns. About 20 nightmen are employed to take out the castings. The next morning a new set of hands clean off the sand, "chips" the surface of each piece with chisel and a long handled hammer, smooths it with a fire-brick, and applies a coat of mineral paint. The columns are promptly cut down to the required length in large, self-feeding, double-headed lathes, and any required planing is done. A dozen powerful cranes and several heavy two-wheeled trucks are used for moving the more cumbrous castings. In the finishing department, the work is fitted and fastened together with bolts and screws, just as it is to be set up in the building, so that sometimes a whole front, 25 feet wide and five stories in extent, lies on the floor. The most interesting room in this department is one in which a dozen men screw together and paint the abaci, the hollow "shells" and the elaborate leaves constituting the Corinthian capitals. Iron for building purposes is more costly than brick and less expensive than marble, but the advantage in its favor increases in exact proportion to the degree of ornamentation. Iron architecture is still in its infancy, and no reason can be given why this metal should not be cheapened and perfected into one principal business building material, at least in cities and large towns.

A steam engine, with two 80-horse power boilers, furnishes the motive power for the various machines in use. The establishment is also supplied with a steam pump and abundance of hose. Strikes have been unknown in the history of this firm, whose workmen are paid by the hour. It requires 12 or 13 hours to mold a large column, and the Cornells get the work all done in one day by calling the time a day and a half, and paying for it at that rate. Beside the Twenty-sixth-st. foundery the Cornells also occupy two lots on the south side of Twenty-fifth-st. as a stable and storehouse for patterns, four lots on the north side of Twenty-sixth-st. as a finishing shop and yard for unfinished iron, and three lots on the same side of the street, east of Tenth-ave., for the storage of finished work. A large shop 200 feet square and one story high has been erected on the block west of Eleventh-ave., and the rest of the square, which includes about 60 lots, is used as a yard for storing immense quantities of miscellaneous iron.

The down-town establishment includes ten different buildings, and extends in Centre-st. from No. 139 to No. 145, in Walker-st. from No. 103 to No. 109, and on Elm-st. from No. 87 to No. 93. The main building, one of the finest structures on Centre-st., is 72 feet square, and was built three years ago. There is a first-class blacksmith's shop in the basement, and in the first story are spacious and comfortable offices, an architect's room, and a warehouse containing numerous samples of ornamental iron work. The remainder of the establishment is mainly devoted to finishing "inside work" and to the manufacture of rolling-shutters, patent lights of glass and iron, and fire-proof safes and vaults.

J. B. & W. W. Cornell, whose achievements have thus been briefly glanced at, were sons of a Long Island farmer, and their career has been marked not only by invariable promptness in the execution of work but by a large and unostentatious benevolence, especially through the channels of the Methodist Church of which both are leading members. W. W. Cornell is also President of the New-York City Sunday-school and Missionary Society of the M. E. Church.—*N. Y. Tribune.*

THE TIRELESS BRAIN.

Our brains are seventy-years clocks. The angel of life winds them up once for all, then closes the case, and gives the key into the hand of the angel of the resurrection. Tic-tac! tic-tac! go the wheels of thought; our will can not stop them they cannot stop themselves; sleep cannot still them, madness only makes them go faster; death alone can break into the case, and, seizing the ever-swinging pendulum which we call the heart, silence at last the clicking of the terrible escapement we have carried so long beneath our wrinkled forehead. If we could only get at them, as we lie on our pillows and and count the dead beats of thought after thought, and image after image, jarring through the over-tired organ! Will nobody block those wheels, uncouple that pinion, cut the string that holds these weights, blow up the infernal machine with gunpowder? What a passion comes over us sometimes for silence and rest—that this dreadful mechanism, unwinding the endless tapestry of time, embroidered with spectral figures of life and death, could have but one brief holiday? Who can wonder that men swing themselves off from beams in hempen lassoes? that they jump off from parapets into the swift and gurgling waters beneath? that they take counsel of the grim fiend who has but to utter his one peremptory monosyllable, and the restless machine is shivered as a case that is dashed upon a marble floor? If anybody would really contrive some kind of a lever that one could thrust in among the works of this horrid automaton and check them, or alter their rate of going, what would the world give for the discovery? Men are very apt to try to get at the machine by some indirect system or other. They clap on the brakes by means of opium, they change the maddening monotony of the rhythm by means of fermented liquors. It is because the brains is locked up and we cannot touch its movements directly, that we thrust these coarse tools in through any crevice by which they may reach the interior, alter its rate of going for a while, and at last spoil the machine. —*Holmes.*

APPRENTICE LAW.—An indentured apprentice in Philadelphia, who "ran off" from his employers because things didn't suit him, has had the alternative placed before him by Judge Paxson, before whom the case was heard, of returning to his master or going to jail. The judge closes a long argument as follows:

All I decide now is that the defendant must return to his service. If having done so, his employers refuse to pay him the weekly wages stipulated in the indenture, or fail to give him the schooling to which he is entitled, or to properly perform any other covenant which they are bound to peform; let him resort to the law for redress. It is strong enough to secure him all his legal rights. But he need first be taught the salutary lesson that it is not for him to sit in judgment upon his own case, and vindicate his supposed right by an unlawful act. The law will not permit this in any case. It would be most pernicious and subversive of proper authority on the part of masters if apprentices were permitted to decide their supposed grievance in this summary manner. And it would be most unfortunate for the apprentices themselves. If they would make useful men and law abiding citizens, they must begin by exhibiting their respect for law and order in the days of their youth. If not cultivated then, they will never learn the lesson later in life. All I decide now, is that this apprentice must go back to his employers. He has the option between that and imprisonment.

FRENCH ROLLS.—Warm a pint of new milk, melt two large spoonfuls of butter, add a little salt. When cool, sift in one pound of flour, one egg well beaten, one spoonful of yeast. Beat these well together, but avoid kneading. When risen, form it into rolls, hand as little as possible. Bake on tins, and serve.

A BACHELOR'S PUDDING.—Four ounces of grated bread, the same of currants and apples, two ounces of sugar, two ounces of suet chopped fine, three eggs, a little essence of lemon. Boil it two hours. Eat with liquid sauce.

SUBSTITUTE FOR PUTTY.—Mix plaster of Paris and water to the consistency of thick cream. It should be prepared in small quantities, and applied immediately, for it quickly hardens. Brush the sash or frame over with water before applying the plaster. For repairing broken windows it answers very well.

SCIENTIFIC PROGRESS.

During the past year the investigations by travelers, scientists, and philosophers into the varied phenomena of nature and the laws that govern their innumerable co-relations, have been earnest, protracted, and rewarded with good results. The important geographical and scientific events which have occurred in this period, are given in the following brief summary:—

1. The connecting of the North Atlantic with the Pacific Ocean by rail.

2. The completion of the canal across the Isthmus of Suez.

3. The explorations and discoveries in southeastern and east equatorial Africa.

4. The additional and conclusive evidence now brought to light of a climate in the ice-bound region of the Arctic, at a past and remote period of time, resembling that of the countries lying near the equator.

5. The marvelous results of the deep sea dredgings of Profs. Thompson and Carpenter, revealing the existence of animal life at enormous depths in the ocean, where it was supposed to be impossible.

6. The very general disturbance throughout the year of the earth's surface by earthquakes, distinguishable not so much for the effects in particular localities as for the wide distribution of the phenomena over the globe, and its prevalence in parts of the world where such disturbances have never been previously witnessed within the memory of man.

7. The attractive power of mountains, discovered in the pendulum experiments made during the past year at the observing stations upon the Himalayas in India.

8. The discovery, through the spectroscope, of a method of determining the proper motion of the stars, and the fact that the chemical and physical constitution of the whole stella universe is identical.

9. The invention and successful practical use of a self-registering compass, by which every motion of a vessel can be recorded and preserved from the beginning to the end of her voyage.

10. The discovery of trees of enormous height and magnitude in Australia, one of which was found to be sixty-nine feet in circumference.

11. Of great deposits of valuable coal throughout the whole of New Zealand, and the finding of coal upon the borders of the Caspian, verifying in the last particular a prediction of Humboldt made forty years ago, both of which discoveries are of the highest importance to commerce.

12. The anthropological researches in Europe, Asia, and Africa, revealing the structure, mode of life, and customs of the