THE PRESS,
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OFFICE NO. 417 CHESTNUT STREET.

DAILY PRESS.

TWELVE CENTS PER WEEK, payable to the Carrier. Mailed to Subscribers out of the City at SIX DOLLARS PER ANNUM, FOUR DOLLARS FOR EIGHT MONTHS, THREE DOLLARS FOR SIX MONTHS—invariably in advance for the time ordered.

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COMMISSION MERCHANT
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For sale by the Package:
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FOR THE SALE OF
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Offer, by the package, the following descriptio
AMERICAN GOODS,
OF STANDARD MAKES AND IN GREAT VARIETY:
GREENE MANUFACTURING CO.'S PRINTS;
BLEACHED AND BROWN SHEETINGS,
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BLACK AND FANCY CASSIMERES;
BLACK AND MIXED DOESKINS;
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FORMERLY BAY STATE MILLS.
SHAWLS of all sizes, in great variety.
Embossed and Printed TABLE COVERS.
UNION BEAVERS and BROAD CLOTHS.
BALMORAL SKIRTS.
DOESKINS, and Double and Twisted COATINGS.
CASSIMERES and heavy ZEPHYR CLOTHS.
Twilled and Plain FLANNELS and OPERA FLANNELS.
Printed FELT CARPETINGS.
For sale by
FROTHINGHAM & WELLS,
34 South FRONT Street, and
25 LETITIA Street.

MILLINERY GOODS.

THOS. KENNEDY & BRO.
729
CHESTNUT STREET, BELOW EIGHTH,
Have opened a SPLENDID ASSORTMENT of
FRENCH FLOWERS, HEAD DRESSES,
FEATHERS, RIBBONS, STRAW GOODS,
AND
BONNET MATERIALS,
AT LOW PRICES. se6-2m

FALL, 1860.
RIBBONS, BONNETS,
AND
MILLINERY GOODS EXCLUSIVELY.
We have now on hand, and daily receiving, a large and handsome assortment of
RIBBONS, OF EVERY DESCRIPTION,
BONNET MATERIALS,
STRAW AND FANCY BONNETS,
MISSES' AND INFANTS' HATS, SHAKES, &c.
FRENCH AND AMERICAN FLOWERS,
FEATHERS, BUCHES,
AND EVERY OTHER ARTICLE IN THE MILLINERY LINE,
To which the attention of the trade is directed.
ROSENHEIM, BROOKS, & CO.,
491 MARKET Street, North side.

HATS AND CAPS.

NEW HAT STORE.
JOHN E. FOSTER,
(Late of 189 South Third street,)
Having taken the store at
NO. 381 CHESTNUT ST.,
And fitted it up in superior style, invites the attention of his friends to his ELEGANT AND EXTENSIVE STOCK OF HATS AND CAPS.
His new fall styles are much admired. au14 3m

C. H. GARDEN & Co.,
Manufacturers of and Wholesale Dealers in
HATS, CAPS,
FURS,
AND STRAW GOODS,
FANCY SILK AND STRAW BONNETS, ARTIFICIAL FLOWERS, BUCHES, FEATHERS, &c.
No. 606 and 608 MARKET STREET,
Southwest corner of Sixth.
The most extensive and popular assortment. The best terms and the lowest prices. First-class buyers are particularly invited to call. au15-3m

FURS.

FURS! FURS!
GEORGE F. WOMRATH,
NOS. 415 AND 417 ARCH STREET,
Has now Open
A FULL ASSORTMENT
OF
LADIES' FURS,
To which the attention of the Public is invited. oct 4m

CLOTHING.

KELLY & DOHERTY,
TAILORS,
31 and 33 SOUTH FIFTH STREET,
HAVE JUST RECEIVED THEIR
FALL AND WINTER STYLES,
Together with a large assortment of
NEW AND FASHIONABLE GOODS,
To which the public are invited to examine.
oct2-3m

HARDWARE PACKAGE HOUSES.

PACKAGE HARDWARE HOUSE.—We would respectfully call the attention of the Country Trade to our extensive stock of SHELF HARDWARE, which we offer at a small advance.
Orders for direct importation solicited, and Goods delivered either in this city, New York or New Orleans.
WM. H. GRAHAM & SON,
411 COMMERCE Street,
Importing and Commission Merchants, and Agents for Powder and Domestic Hardware. au22-1f

WHITE PRESERVING BRANDY;
PURE CIDER
AND
WINE VINEGAR,
Green Ginger, Mustard Seed, Spices, &c., &c.
All the requisites for Preserving and Pickling purposes.
ALBERT C. ROBERTS,
DEALER IN
FINE GROCERIES.
Corner ELEVENTH and VINE Streets.

SPARKLING AND STILL CATAWBA WINES,
MANUFACTURED BY
J. E. SHELBY,
Cincinnati, Ohio.
Always on hand, and in lots to suit purchasers, by
CHARLES F. TAGGART, Sole Agent,
No. 621 MARKET Street.
FIRST PREMIUM AWARDED, at the Philadelphia Exhibition, to ALMAN & ZIEGLER, for their Family FLOUR.
Family Flour, in bbls., half bbls., quarter bbls., and half barrels, for sale by the Manufacturers, No. 1 Lemon, and Dock-st.
oct-1m

SILK AND DRY GOODS JOBBERS.

WILL OPEN.
MONDAY, OCTOBER 8TH,
A Superb line
FRENCH AND GERMAN
DRESS GOODS
FROM
AUCTION.
The attention of our customers is invited.
JOSHUA L. BAILY,
IMPORTER AND JOBBER,
No. 213 MARKET ST.,
se8-1f

LARGE AND ATTRACTIVE STOCK
FOR
FALL AND WINTER SALES.
SHORTRIDGE, BROTHER, & CO.,
IMPORTERS AND JOBBERS,
No. 420 MARKET STREET, and
No. 415 MERCHANT STREET, PHILADELPHIA.
Have in store complete lines of FOREIGN and AMERICAN STAPLE and FANCY
DRY GOODS,
selected with a view to the interests of CASH and prompt SIX-MONTHS Dealers, to which they invite the attention of the trade. N. B.
A FULL STOCK
constantly on hand, embracing many styles MANUFACTURED FOR THEIR OWN SALES, and not to be found elsewhere.
Orders executed promptly, at LOWEST MARKET RATES. se4-2m

CLOAKS! CLOAKS!
TO
WHOLESALE BUYERS.
EVERY NOVELTY OF THE SEASON,
AT
THE LOWEST CASH PRICES.
Merchants' own materials made up if desired.
HENRY IVENS,
se4-3m No. 23 South NINTH Street.

A. W. LITTLE & CO.,
SILK GOODS,
No. 325 MARKET STREET.
au8-3m

FALL, 1860.
CHAFFEES, STOUT, & Co.
FOREIGN AND DOMESTIC DRY GOODS.
au15-3m No. 522 MARKET STREET.

MARTIN & WOLFF,
WHOLESALE DEALERS IN
FOREIGN AND DOMESTIC DRY GOODS,
334 MARKET STREET.
Cash and prompt Six-months' Buyers, of all sections are invited to an examination of our Stock. au3-3m

REMOVAL.
In consequence of the destruction by fire of their THIRD STREET STORE,
YARD, GILLMORE, & CO.
HAVE REMOVED
TO
NO. 610 CHESTNUT ST.,
SOUTH SIDE, ABOVE SIXTH,
PHILADELPHIA.
They have now open AN ENTIRE
NEW STOCK
OF
SILKS AND FANCY DRESS GOODS,
SHAWLS, GLOVES, RIBBONS,
DRESS TRIMMINGS, &c.,
Together with a LARGE ASSORTMENT of
STAPLE AND FANCY
WHITE GOODS,
EMBROIDERIES, LACES, MANTILLAS, &c.
Having received but a small portion of their
FALL IMPORTATIONS,
previous to the fire, they are enabled to display
A NEW STOCK,
to which they invite the attention of their Customers and Buyers generally. au11-3m

WURTS, AUSTIE, & McVEIGH,
IMPORTERS AND JOBBERS,
IN
DRY GOODS,
No. 311 MARKET Street, above Third.
Charles Wurts,
Henry Austie,
Hamilton T. McVeigh,
John B. Weimer,
Joseph Barkin.
PHILADELPHIA.
au1-3m

R. WOOD, MARSH, & HAYWARD,
IMPORTERS
AND
WHOLESALE DEALERS IN
DRY GOODS
AND
CLOTHING.
NO. 309 MARKET STREET.
Fall and Winter Stock now complete and ready for buyers. au1 3m

PAPER HANGINGS.

PAPER-HANGING.
(FALL TRADE.)
HOWELL & BOURKE,
Having removed to their new Store,
CORNER FOURTH AND MARKET STREETS,
Are now prepared to offer to the Trade a large and elegant assortment of
WALL PAPERS,
BORDERS,
FIRE SCREENS,
WINDOW CURTAIN GOODS, &c.,
All of the newest and best designs, from the lowest-priced article to the finest
GOLD AND VELVET DECORATIONS.
Southern and Western merchants will do well to visit the establishment of
HOWELL & BOURKE,
N. E. CORNER FOURTH AND MARKET STREETS,
au15-3m PHILADELPHIA.

GAS FIXTURES, LAMPS, &c.

KEROSENE OIL OF SUPERIOR QUALITY.
KEROSENE, or
COAL-OIL LAMPS,
CHANDELIERS, BRACKETS, &c.,
Manufactured and for sale, at
LOWEST CASH PRICES,
by
WITTERS & CO.,
No. 35 NORTH EIGHTH STREET,
N. E. cor. of Filbert, between Market and Arch.
oct4-2m

GENTS' FURNISHING GOODS.

GENTLEMEN'S FURNISHING GOODS.
Now opening, a superb assortment of novelties for Gentlemen, viz: EUREKA SCARFS, SCARFS, TIES, COLLARS, FLANNELS FOR TRAVELLING SHIRTS, &c., selected in London, and Paris, to which special attention is invited.
W. W. SCOTT,
814 CHESTNUT Street.
A few doors below the "Continental."

WOOL.
Now in store, and for sale at the lowest market prices, a large Stock of the most desirable grades of
OHIO AND PENNSYLVANIA FLEECES,
ALSO,
LOW AND MEDIUM WOOLS,
Which purchasers are requested to call and examine.
BENJ. COATES,
se26-3m 127 Market Street, Philadelphia.

THOMAS THOMPSON, SON, & CO.,
IMPORTERS AND JOBBERS OF
CABINET-MAKERS' MATERIALS,
836 SOUTH SECOND STREET.
Veneers, Plushes, Reps, Damasks, and every description of Furniture and Curtain Goods. se19-2m

R. SHOEMAKER & Co.
GLASS, PAINTS,
OILS AND VARNISHES.
Northeast Corner FOURTH AND RACE Streets.

CARPETING AND OIL CLOTHS.

FALL TRADE.
McCALLUM & CO.,
CARPET MANUFACTURERS,
GLEN ECHO MILLS, GERMANTOWN,
Also, Importers and Dealers in
CARPETINGS,
OIL CLOTHS,
MATTINGS, RUGS, &c.
WAREHOUSE, 509 CHESTNUT STREET,
(Opposite the State House.)
Southern and Western Buyers are respectfully invited to call. au17-3m

AUSTIN BROWN,
WHOLESALE DEALER IN
FLOOR OIL-CLOTHS,
164 North THIRD Street, southwest corner of RACE, (up stairs.) se12-1m*

BLINDS AND SHADES.

BLINDS AND SHADES.
B. J. WILLIAMS,
No. 16 NORTH SIXTH STREET.
Is the most extensive Manufacturer of
VENETIAN BLINDS
AND
WINDOW SHADES.
The largest and finest assortment in the city, at the lowest prices.
STORE SHADES made and lettered. REPAIRING promptly attended to. oct-1m

LOOKING GLASSES.

LOOKING-GLASSES
AND
PICTURE FRAMES,
Of every variety.
ENGRAVINGS, OIL-PAINTINGS, &c.,
AT
NO. 826 ARCH STREET.
GEO. F. BENKERT,
MANUFACTURER AND IMPORTER.
PICTURE, CORNICE AND ROOM MOULDINGS, Wholesale and Retail. oct2-3m

LOOKING-GLASSES,
PORTRAIT AND PICTURE FRAMES,
ENGRAVINGS,
OIL PAINTINGS, &c., &c.
JAMES S. EARLE & SON,
IMPORTERS, MANUFACTURERS, WHOLESALE AND RETAIL DEALERS.
EARLES' GALLERIES,
816 CHESTNUT STREET,
mh28-tf Philadelphia.

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WILLIAM YARNALL,
IMPORTER AND DEALER IN
HOUSE FURNISHING
GOODS,
No. 1020 CHESTNUT STREET,
(Immediately opposite the Academy of Fine Arts.)
TABLE CUTLERY, OVAL WAITERS,
KITCHEN TABLES, DOOR MATS,
CLOTHES MANGLES, &c., &c.
Persons commencing HOUSEKEEPING are particularly invited to an examination of this stock of USEFUL GOODS. se7-fmw3m

REMOVALS.

REMOVAL.
EVERETT, HICKS, & CALDWELL,
CLOTH HOUSE,
Have removed to
328 MARKET STREET.
Buyers are invited to examine our stock. au11-3m

UMBRELLAS.

SLEEPER & FENNER,
WHOLESALE MANUFACTURERS
OF
UMBRELLAS AND PARASOLS,
NO. 326 MARKET STREET,
PHILADELPHIA,
are now making more than
FIVE HUNDRED DIFFERENT VARIETIES OF UMBRELLAS of every size, from 22 to 40 inches.
Buyers who have not had S. & F.'s make of goods will find them well spent in looking over this well-made stock, which includes MANY NOVELTIES, not met with elsewhere. au23-3m

SPORTING GOODS.

GUNS, PISTOLS,
SKATES, &c.
PHILIP WILSON & CO.,
MANUFACTURERS OF SUPERIOR GUNS,
Importers and Dealers in
FINE GUNS AND SHOOTING TACKLE,
CRICKET BATS, BALLS, &c.,
BASE-BALL IMPLEMENTS,
SKATES OF EVERY VARIETY,
FINE FISHING TACKLE,
AT THE LOWEST PRICES.
482 CHESTNUT STREET.
oct-1m

SEWING MACHINES.

HARRIS' BOUDOIR
SEWING MACHINE.
No. 1—FOR FAMILY USE.
No. 2—A NEW MACHINE, FOR QUILTING AND HEAVY WORK.
Both sew from two spools without the trouble of rewinding, and runs with little or no noise.
For sale at No. 720 ARCH Street, Philadelphia, and No. 73 BALTIMORE St., Baltimore, Md. oct1-3m

THE BEST MANUFACTURING AND FAMILY
SEWING MACHINES
IN THE WORLD, AT
I. M. SINGER & CO.'S,
Oct-3m No. 510 CHESTNUT Street.

WHEELER & WILSON,
SEWING MACHINES.
628 CHESTNUT STREET; SECOND FLOOR.
jy26-3m

W. P. UHLINGER & CO.'S
SHUTTLE AND DOUBLE-LOOP STITCH
SEWING MACHINES,
FOR
FAMILY USE,
TAILORS, SHOEMAKERS, SADDLERS, &c.,
No. 628 ARCH STREET.
Price of SHUTTLE MACHINE, $50.
Price of DOUBLE-LOOP STITCH MACHINE from $25 upwards.
The simplest and most efficient machine manufactured for all kinds of use.
P. S.—MACHINE SILK, COTTON, NEEDLES, OIL, etc., constantly on hand. jy1 3m

WILCOX & GIBBS' SEWING MACHINE. The great and increasing demand for Wilcox & Gibbs' Sewing Machine is a guarantee of its superior excellence. Price $30. For sale at FAIRBANKS' Scale Warehouse, 715 CHESTNUT St. fe3-tf

SHOE FINDINGS.

ISAAC BARTON & CO.,
IMPORTERS AND DEALERS IN
SHOE STUFFS,
FRENCH AND ENGLISH LASTINGS, GAMBOONS, PATENT LEATHER, &c.
ALSO,
GOODS FOR CARRIAGE MAKERS.
No. 35 SOUTH SECOND STREET, Philadelphia. au1-3m

SAFES.

FILLIES' PATENT
WROUGHT AND CHILLED IRON
BURGLAR AND FIRE PROOF SAFES.
DEPOT
715 CHESTNUT ST.,
UNDER MASONIC HALL,
M. C. SADLER, General Agent.
AND BANK LOCKS, DOORS, &c.
Strictly the only Mercantile Safe made that is both Fire and Burglar proof. se25-1 m-tf

MARTIN & QUAYLE'S
STATIONERY, TOY, AND FANCY GOODS
EMPORIUM,
1036 WALNUT STREET,
BELOW ELEVENTH.
fe14-1yr PHILADELPHIA.

THIRD STREET JOBBING HOUSES

BUNN, RAIGUEL, & CO.
IMPORTERS AND JOBBERS OF
FANCY DRY GOODS.
No. 137 NORTH THIRD STREET,
NOW OFFER TO THE TRADE AN UNUSUALLY ATTRACTIVE STOCK OF GOODS,
COMPRISING
SILKS, RIBBONS, DRESS GOODS, WHITE GOODS, EMBROIDERIES, LACES, CLOTHS, CASSIMERES, VESTINGS, HOSIERY, GLOVES, AND TRIMMINGS,
Together with a full and varied stock of
FALL AND
WINTER SHAWLS.
To all of which they invite the attention of
CASH AND PROMPT SIX-MONTHS BUYERS.
oct4-1m

RAIGUEL, MOORE, & CO., Nos. 220 and 222 NORTH
THIRD STREET,
HAVE NOW OPEN THE LARGEST AND MOST
COMPLETE STOCK
OF
FRENCH, BRITISH, GERMAN,
AND DOMESTIC
DRY GOODS
They have ever offered, and to which the attention of
CASH AND SHORT-TIME BUYERS
Is respectfully solicited.
For variety and completeness in all its departments, our present stock offers inducements to buyers unsurpassed by any other house. se25-1m

THE attention of Buyers is solicited.
FRESH
FALL GOODS.
RIEGEL, BAIRD, & CO.,
IMPORTERS AND JOBBERS
OF
DRY GOODS,
No. 47 NORTH THIRD STREET,
Would respectfully invite the attention of the trade to their
LARGE AND WELL-SELECTED
Stock of
FRESH FALL GOODS,
Which they are now opening. We are daily in receipt of all kinds of fresh and desirable goods. Call and examine our stock. se7-2m

JAMES, KENT,
SANTEE, & CO.,
IMPORTERS AND JOBBERS
OF
DRY GOODS.
NOS. 239 AND 241 NORTH THIRD STREET,
ABOVE RACE,
Respectfully invite the attention of Buyers to their usual
LARGE AND COMPLETE STOCK OF
FOREIGN AND DOMESTIC GOODS,
Among which will be found a general assortment of
PHILADELPHIA-MADE GOODS,
Also, a large variety of new and confined styles of
PRINTS, MERRIMACK SECONDS, &c.
au17-3m

THOS. MELLOR & CO.,
NO. 6 NORTH THIRD STREET,
IMPORTERS
OF
HOSIERY,
SHIRTS AND DRAWERS,
SMALL WARES, &c.
THOS. MELLOR, JOHN B. MELLOR,
EDWARD BAINS, GEO. C. EVANS.
au17-2m

FALL, 1860.
COOPER, PARHAM, & WORK,
Importers, Manufacturers, and Jobbers of
HATS, CAPS, FURS,
AND
STRAW GOODS,
NO. 51 NORTH THIRD STREET, below ARCH, PHILADELPHIA.
MILTON COOPER. WM. M. PARHAM.
ROBERT D. WORK.
Fall Stock now complete and ready for buyers. au17-2m

SOWER, BARNES, & CO.,
BOOKSELLERS AND PUBLISHERS,
No. 37 NORTH THIRD STREET,
Lower side, above Market Street, Philadelphia,
Invite the attention of Booksellers and country merchants to their very large stock of School Books, published in this and other cities, together with Miscellaneous and Blank Books, Paper, and Stationery generally. Sower, Barnes & Co., are publishers of many popular works, among which are the following:
THE CENTRAL GOLD REGION,
BY COL. WILLIAM GILPIN,
(Late of the U. S. Army.)
ILLUSTRATED BY NUMEROUS MAPS.
One vol., 8vo, bound in cloth. Price $1.50; and a liberal discount to the trade.
This book is pronounced the most wonderful, scientific, and comprehensive treatise on the geography of our continent ever published.

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SANDERS' SERIES OF READERS.
BROOKS' NORMAL PRIMARY ARITHMETIC ..... 18 cts.
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BY E. BROOKS, A. M.,
Professor of Mathematics in Pennsylvania State Normal School.
Liberal terms for introduction.

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BY T. KIRK WHITE,
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PELTON'S OUTLINE MAPS.
This series of SIX SUPERB MAPS is now adopted in almost every school of note in the Union where geography is taught, and has no equal. Price $25 for full set of six maps, or $10 for set of hemisphere maps alone. au8-3m

CABINET FURNITURE.

FRENCH FURNITURE.
GEORGE J. HENKELS,
524 WALNUT STREET,
Just opened a large invoice of
OLE,
QUADRILLE,
MARQUETRIE, and
ORMOLU WORK,
Which he will sell at very REDUCED PRICES.
FIRST-CLASS CABINET WARE.
GEO. J. HENKELS,
524 WALNUT STREET.
Offers at
VERY REDUCED PRICES
The largest assortment in the Union, all of New Designs
Call and examine before purchasing. se14 3m

CABINET FURNITURE AND BILLIARD TABLES.
MOORE & CAMPION,
No. 261 SOUTH SECOND STREET
In connection with their extensive Cabinet Business, are now manufacturing a superior article of
BILLIARD TABLES,
and have now on hand a full supply, furnished with MOORE & CAMPION'S IMPROVED CUSHIONS, which are pronounced, by all who have used them, to be superior to all others.
For the quality and finish of these Tables the manufacturers refer to their numerous patrons throughout the Union, who are familiar with the character of their work. au2-6m

NEW CABINET WAREROOMS
OPEND THIS WEEK BY
H. J. HUBBS,
No. 45 South SECOND Street,
Four doors above Chestnut street,
Philadelphia,
A large assortment of FURNITURE of every description constantly on hand, at the lowest cash prices. oct3 3m

HARDWARE.

MOORE, HENZEY, & CO.
ARE NOW OPENING
THEIR FALL STOCK OF
HARDWARE.
427 MARKET, and 416 COMMERCE STREET.

The Press.

VOL. 4.—NO. 62. PHILADELPHIA, FRIDAY, OCTOBER 12, 1860. TWO CENTS.

The Press.

FRIDAY, OCTOBER 12, 1860.

Sub-Atlantic Telegraph Cables.

The interest relating to the Atlantic cable continues unabated, at least. The comparative failure, sudden and simultaneous, of nearly all the deep-sea telegraphs in the Old World, makes this question extremely important just now. We now submit a communication on the subject from Mr. William H. Horstmann, of New York, which, from its practical good sense, appears worthy of grave consideration.

The topics which have drawn him into print are the proposed line across Behring Straits, the line across Iceland, Greenland, and Labrador, the report of Mr. Varley on his attempts to raise the cable near Newfoundland, and the report of the British Government Committee on submarine cables generally. Mr. Horstmann says:

I believe that the line across Behring Straits will eventually prove to be a very splendid enterprise, but at present it is altogether premature by more than a century. Steam communication with Europe will prove—in our lifetime—to be a shorter and a much more reliable means. This is owing to the danger of running 15,000 or more miles of wire through a country bordering on the Polar regions, either entirely uninhabited or peopled by tribes in a more or less savage state; also to the almost certainty that not less than a dozen places, on this widely-extended line would be constantly down by the action of the elements, without the facility of an immediate repair.

For the same reasons and for the additional ones of the movements of ice and the drifts of icebergs, it is to be feared that the line across Iceland, Greenland, and Labrador—commonly called the Danish route—will fail to meet the expectations of its friends.

Allow me to ask, what is the use of telegraphic communication, if not firmly established, without fear of constant interruption?

Mr. James Stuart Wortley, chairman, in the early part of this year, stated before the Atlantic Telegraph Company, that, in consequence of the failure of their cable, Government had appointed a scientific committee, to which the officers of the company had been joined, to investigate the existing cables and to report on their merits, with the view to select the best one.

The language of Mr. Wortley led us to believe that preference would be given to gutta percha; for he said that amongst all the samples presented, a few had been selected, and that in the experiments made with these the great struggle appeared to have been between india rubber and gutta percha, and that the latter had carried the day.

This expectation is not borne out by the result, for if gutta percha had really proved to be as satisfactory as those partial to this style of manufacture desire it to be, said committee would certainly have reported in favor of it.

But, on the contrary, (see London *Times*, July 19) "They have little to say, for they recognize that the whole scheme of telegraphic communication is still in its infancy, and much experience is required before rules can be laid down, while some risk of loss must be incurred in the efforts to bring it into a state of greater perfection."

Well they may say so; for all submarine cables laid up to the present moment, are made of gutta percha, and, of the whole number, there is but one or two giving anything like full satisfaction, and this exception is owing to their diminutive size.

The committee, at the time of their report, did not know the *valuable* result of Mr. Varley's experience on the coast of Newfoundland, on the occasion of his attempt to raise the old cable, as will follow hereafter.

The main question is: Can a telegraphic message be sent through a cable on a direct line from Europe to Newfoundland? and the answer is most emphatically in the affirmative.

The proof has been furnished by the old Atlantic Telegraph Company, to whom the world at large is so much indebted for their experience. Honor to these men for their enterprise! A leap in the dark, a forlorn hope, was necessary, to serve others as a beacon to steer clear by.

The proof of communication, I repeat, has been given by this company; for, leaving, for argument's sake, their testimony out, as an interested party we have the statement of the British Government that several messages have been sent and others received through this cable; and there is nobody prepared to believe that the British Government would either make a false statement to bolster up a by company, or allow themselves to be made a dupe of.

The collision of the two Cunard steamers was also known in England before the report could have been brought by steamer.

The old cable failed from a variety of causes, amongst which I allude to the following ones:

1. The twisted form and consequent kinks.

2. The effect of heat and pressure on the gutta percha when the cable was in coils, which displaced the copper conductor from the centre of the cable, and brought it in contact with the iron wire or the water.

3. To the hardness and shrinking of the gutta percha in ice water.

The temperature of the Gulf stream, between Florida and Cuba, according to investigations made by the United States Coast Survey, is from 75 to 80 degrees at the surface, and only 35 degrees at a depth of 600 fathoms. If this is the case near Havana, it is not to be supposed that the water at the bottom of the ocean is any warmer in colder latitudes.

The bottom of the deep sea is covered with a fine thick mud, of great depth, and gradually thickening.

When the cable was passed out, the slack, on reaching the vicinity of the bottom, formed coils, in consequence of its twisting tendency. It took a long while to settle down completely into this mud, and, in doing so, it naturally extended and strained.

Gutta percha, however, is pliable only when warm, and it shrinks and becomes hard and brittle when cold, and when reaching those lower regions it bore alone all the strain exerted, and parted in an infinite number of instances, creating thereby a corresponding number of fissures, through which the water came into contact with the copper conductor, impairing the electric current.

As above shown, this was not done all at once, but gradually, as everybody will recollect, until its efficiency was totally destroyed.

The first condition of a well-working cable—besides its perfect insulation—is a protecting material which remains pliable in ice-water.

I come now to the report of Mr. Varley on his attempt to raise the old cable. It proves two things.

Firstly, that iron wire will completely rot in salt water; and secondly, that a serving of hemp and tar will keep it in a sound condition, and even perfectly bright.

The fact that the gutta percha and the copper conductor were found, *for a few miles*, to be in a good condition speaks nothing, for it was taken out of shallow water, and not out of the deep sea.

But it's simple serving of hemp and tar has been found to keep a cable in perfect condition during a two years' submersion in salt water, on a rocky bottom and on a rough coast, I ask what more critical test must be imparted in the efforts to bring it into a state of greater perfection."

Well they may say so; for all submarine cables laid up to the present moment, are made of gutta percha, and, of the whole number, there is but one or two giving anything like full satisfaction, and this exception is owing to their diminutive size.

The committee, at the time of their report, did not know the *valuable* result of Mr. Varley's experience on the coast of Newfoundland, on the occasion of his attempt to raise the old cable, as will follow hereafter.

The main question is: Can a telegraphic message be sent through a cable on a direct line from Europe to Newfoundland? and the answer is most emphatically in the affirmative.

The proof has been furnished by the old Atlantic Telegraph Company, to whom the world at large is so much indebted for their experience. Honor to these men for their enterprise! A leap in the dark, a forlorn hope, was necessary, to serve others as a beacon to steer clear by.

The proof of communication, I repeat, has been given by this company; for, leaving, for argument's sake, their testimony out, as an interested party we have the statement of the British Government that several messages have been sent and others received through this cable; and there is nobody prepared to believe that the British Government would either make a false statement to bolster up any