PITTSBURG'S PLATES.

The Nickel Steel Armor Produced by Carnegie, Phipps & Co.

STANDS THE TEST OF WARFARE

French and English Articles Bear No Comparison Now.

DETAILED RESULTS OF THE TRIAL

PEPECIAL TELEGRAM TO THE DISPATCH. NEW YORK, Dec. 10.-The general results of the trials of American-made ship armor, carried on this year at the naval proving grounds, are already known; but herewith are produced exact representations of the penetrations of the entire series of 30 shots fired during the two days, October 31 and November 14. The six 1014-inch plates tested, with the names of their makers and their weights in pounds, were as follows:

High-carbon nickel steel, Bethlehem

.....20,506 20,59020,220

lehem Iron Company ... Four shots from the six-inch gun were fired at each plate at the left upper, the right upper, the left lower and the right lower corners. The fifth and final shot was from the eight-inch gun at the center. Having described in detail the result of each shot, the board makes the following summary of its conclusions of the order of

merit: The Order of Merit of the Plates. First, the high-carbon, nickel-steel Harvey plate furnished by the Bethlehem Iron Com-

Second, the high-earbon, nickel steel plate furnished by the Bethlehem Iron Company. Third, the high-earbon, nickel steel plate furnished by Carnegle, Phipps & Co. Fourth, the high-earbon, nickel steel Harvey plate furnished by Ctrnegie, Phipps & Co.

Fifth, the low-carbon, nickel steel plate furnished by Carnegie, Phipps & Co. Sixth, the low-carbon, steel Harvey plate furnished by the Bethlehem Iron Company.

The right side of plate No. 1 showed very remarkable qualities. The two projectiles which struck that side penetrated not more than seven inches, the head remaining in than seven inches, the head remaining in the plate, completely filling the hole, and with the appearance of having been welded to the surrounding metal, while the body was shattered into many fragments. No cracks were made on that side of the plate. The back of the plate on that side showed

The back of the plate on that side showed no disturbance except a hardly noticeable swelling on the surface.

It is to be noted that the upper part of plate No. 6 (Harveyed) showed qualities resembling those of the right side of No. 1, while on the other hand, plate No. 4 (likewise Harveyed) was totally lacking in such characteristics.

The Good Points of the Other Plates. Plate No. 2 showed a great degree of uniformity, as well as resistance to penetra-tion. The small penetration of the eight-inch shot in plate No. 3 was, in the opinion of the board, due to the excessive upsetting

such characteristics.

of the projectile.

All of the armor plates were more or less cracked through, but only two—Nos. 3 and 6—badly, and these two plates alone showed cracking before the fifth shot. Plates Nos. 1, 2, and 3 kept out all the projectiles. No. 4 was were performed by continuously. jectiles; No. 4 was was perforated by one and Nos. 5 and 6 by two projectiles each. It will be noticed that the "high carbon" plates show better results than those of "low carbon," but it is believed that the chemical analysis of the plates now in progress will show that the words "high" and "low" employed by the manufacturers has been used arbitrarily and have but little value for purposes of comparison. The Holtzer and Firminy projectiles were part of the lot used at the Annapolis armor trials

Superior to the French Product.

Comparing the plates of this trial with the Creusot steel, and the Creusot nickel steel plates of the Annapolis trials of September, 1890, the board is of the unanimous opinion that No. 1, the high carbon nickel Harvey steel plate furnished by the Bethlehem Iron Company, and No. 2, the high-carbon nickel steel plate furnished by the Bethlehem Iron Company, are superior to the Creusot steel and nickel steel plates of last year.

In this connection it should be considered that the firing at this year's, and that the interval between the fourth and fifth shots at each plate was about two hours, instead of

val between the fourth and fifth shots at each plate was about two hours, instead of four days, as then. At this trial the plates were still "singing" from the blows of the six-inch, when they were struck by the eight-inch projectiles.

The board will, in obedience to the department's order, make a supplemental report upon a "high-carbon nickel steel Harvey" plate and a "low-carbon steel Harvey" plate, to be furnished by Carnegie, Phipps & Co., which will be tried as soon as ready under the same conditions as the six plates whose trial has been completed.

The Carnegie Contract Justified.

The Carnegie Contract Justified. It is to be noted, in reference to the fore-going report, that the mode of tempering at Bethlehem differed from that at Pittsburg. Although the chief honors of the trial went to the former establishment, yet the greater degree of excellence in the best plates of the latter vindicated the Navy Department in having entered into a contract with it about a year age for 6,000 tons of armor plates and a year ago for 6,000 tons of armor plates and

appurienances.

Interesting as are these comparisons between the American plates, they become more so on turning to the trials of September, 1890. It will be remembered that then ber, 1890. It will be remembered that then enly foreign plates were tested. The nickel steel and all-steel plates of Schneider gained a signal victory over the compound plate of Cammell. The nickel steel plate was properly considered the acme of armor protection up to that time. Great interest was, therefore, felt in seeing how American-made armor to syear would compare with the French-made of last year, for the trials had been made under substantially the same conditions as to guns, projectiles, thickness conditions as to guns, projectiles, thickness of plates and backing, and so on, except that two of the eight-inch shells used this year were Carpentere, instead of Firming,

projectiles. The American Product Ahead.

The American Product Ahead.

The Chief of Ordnance tells the result, in this respect, in declaring that "all the plates showed greater resistance to perforation and less cracking than did the English compound plate of last year; two of the plates showed greater resistance to perforation and less cracking than did the most resisting plate of last year, the all-steel, and considering everything, were better plates than either the Creusot nickel or the all-steel plate of the earlier tests."

In the Bethlehem nickel steel plate, treated by the Harvey process, the results were most remarkable and unprecedented, not one of the projectiles having reached the rear surface of the place. In fact, except for unevenness in tempering, owing to the lack of familiarity with this new process, there would have been but a few inches of penetration in any of the shots. The cracking on the softer side of the plate was unimportant; accordingly the bureau considers that "two important results have been achieved; first, a better plate of American manufacture has been produced than the department was able to purchase abroad a year ago; secondly, it has developed a new principle in the manufacture of armor, of American origin, which there are good grounds for believing will furnish greater protection to the vital parts of a vessel of war than any other system hitherto employed."

WATCH for the "Chemical Diamonds. Who has them?

LATE NEWS IN BRIEF.

Epizootic is attacking Austrian hors -Roger Q. Mills' friends are now booming him for the Texas Senatorship. -Californians are dying off from Austra-lian influenza, a species of the grip. -Eleven men broke jail at Galesburg, Ill., Wednesday night, by sawing the bars. —A mine explosion as Hennsdorf, Ger-many, killed 20 men and injured a number of others.

-Green goods sharpers bagged five vic-tims at Waxahatenie, Tex., for large

The South Carolina Lower House has passed a bill requiring separate railroad cars for colored people.

The brig Evviva, from New York for Rosario, is ashore and full of water at Martin Garcia, England.

—The United States steamer Atlanta sailed from Fortress Monroe for St. Thomas at 11 o'clock yesterday morning.

The grand jury of San Antonio, Tex., spent 28 hours in jail for contempt for refusing to pay a fine. They are now out on bail. Canada and Newfoundland have plunged into a war of fish and farm produce tariffs.
 The trade each loses will come to the United States.

—Achraman & Co., shoe dealers of Canton, O., have assigned, owing \$12,000; assets, \$18,-000. The firm bought too heavily for the fall

-Matt Flink and Olaf Ericson were instantly killed at the Tamarack mine, near Red Jacket, Mich., by the premature discharge.of a bfast.

—Jim Lyles and Margaret Lasley were sentenced at Danville, Va., Thursday, to hang January 22, for the murder of Mrs Lasley's husband.

—The second relief contribution for the striking Indiana miners in the Brazil dis-trict, amounted to only \$500, to be distributed among several hundred families. —United States Marshals at Tullahoma Tenn., have made a successful raid upon two large fillioit distilleries. The plants were de molished, but no arrests were made.

—The tramp propellor Oregon, of Vermill-ion, O., was wrecked on a shoal off the Cana-dian shore of Lake Erie, with 69,000 bushels of oats. The vessel and grain were badly damaged.

—An Illinois Central passenger train was wrecked by a Midland train crashing into it at the crossing at Arcola. Ill., Wednesday, Engineer Woodrufi was killed and several

passengers were injured. —Three of the gang of outlaws who mur-dered Deputy Marshal Thornton in Okla-homa—Sam Leslie, Cesar Jack and Alexan-der Scott—have been captured. Leslie con-fesses that he fired the fatal shot.

—Indiana farmers will demand of their Legislature a law reducing railroad fares to 2 cents a mile. This is retaliation against the roads for refusing to grant reduced rates to meetings of farmers' organizations.

—A runaway freight train wrecked three dwellings at Marquette, Mich., Wednesday evening. The ruins of two of them caught fire and were completely consumed. The three families escaped in their night clothes. —Shearon and Crawford, the lads Wednes day found guilty in Liverpool of murdering Dawson, another boy for his clothes, have been sent to the Catholic Reformatory, their ages precluding capital punishment upon them.

The New Hampshire Supreme Court has denied the motion for a new trial in the case of Isaac Sawtelle, who so brutally murdered his brother Hiram. The murderer hoped to be tried in Maine, where capital punishment is not in vogue. He will be hanged January 5.

—General Velasquez, who was Minister of War under Balmaceda, and who, upon the fall of Valparaiso, sought temporary refuge in the German Legation, left that asylum some time ago, and has since been in hiding. He surrendered himself to the military tribunal Wednesday, after receiving guamntees that he would be dealt with fairly.

he would be dealt with fairly.

—Governor Francis, of Missouri, has not yet decided whether he would call an extra session of the Legislature of Missouri or not. He says there are legal questions which must be settled before he decides upon his course of action. If Missouri could not secure an extra electoral vote unless the State were redistricted, the Legislature would be called together to redistrict the State.

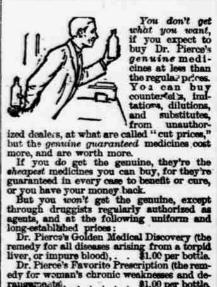
—William J. Odair, elected in November to the New York Assembly from the Twenty-second district as the Republican anti-Tammany candidate, and who, it was confidently expected, would vote with the Republicana, has written a letter to Hon. Richard Croker to the effect that he was a Democratic worded Democratic measures and principles, and intended to support the Democratic party.

—During the funeral occuments

Intended to support the Democratic party.

—During the funeral ceremonies at the cemetery where the many victims of the St. Etienne explosion were interred, M. Douvelour, vice chairman of the colliery company at St. Etienne, and M. Girodet, Mayor of St. Etienne, quarreled over a question of etiquette. A disgraceful scene ensued, which resulted in a challenge to fight a duel. This has been accepted, and the disputants are now making preparations for the "affair of honor."

—It now appears that after his attack upon Para, Mexico, last month, Garza, the revolutionary leader, crossed into Texas. He was tracked to Corpus Christi, in company with two others, all three partially disguised. The three were seen entering a coach on the train bound for San Antonio, Thursday, Colonel Aguirre, a Mexican officer who has been tracking Garza, thinks that the revolutionist will endeavor to cross back into Mexico at Eagle Pass, Tex.



edy for woman's chronic weaknesses and de-rangements, \$1.00 per bottle. Dr. Pierce's Pleasant Pellets (the original and best little Liver Pills). 25 cents per vial.

MASS MEETING TO-NIGHT

LAFAYETTE HALL

UNION PRINTERS AND PRESSMEN

YOU ARE INVITED.



For the Holidays.

CARUSS & MANNION, Opticians, 67 FIFTH AVENUE.



Distress After Eating

Indigestion, Nausea, Sick Headache, Biliousness,

Dyspepsia

Sour Stomach, Heartburn, etc., Are cured by

Hood's Sarsaparilla

Positive fact. Come and see what no other liquor house in the State can show you. The oldest Rye Whiskies

in the market: 1869 Overholt, \$3 per quart. 1871 Guckenheimer, \$3 per quart. 1873 Finch, \$2.50 per quart.

1881 Overholt, \$2 per quart. Silver Age Pure Rye, 8 years old,

t \$1.50 per quart. Duquesne, 6 years old, at \$1.25 per quart, sold with a sworn certificate of purity from the distiller. All imported and domestic wines, such as Port, Sherry, Tokay, Claret, Burgundy, Moselle, Rhine and Champagne; in fact, any still or sparkling wine, Scotch and Irish Whiskies, all brands Jamaica, Vera Cruz and New England Rums, Virginia and Maryland Apple Jack and Delaware Peach Brandy, foreign and domestic Fruit Cordials and Cigars. For the next 30 days you, can have a 7-year-old Finch, Guckenheimer, Overholt, Gibson, Bear Creek or any Pennsylvania Pure Rye for \$1 per quart, or 6 quarts for \$5. Goods absolutely pure. A 4-year-old Port, Sherry, or any other California Wine, at 50c each

per quart, or 12 quarts for \$5. All goods securely packed and shipped anywhere. No goods sent C. O. D.

Come and see our stock before buying your Xmas goods, and you will be shown the finest selection of Rare Old Liquors and French Cordials. You will not regret it.

Send for Catalogue and Price List. dell-xwy HOLIDAY PRESENTS.



GOLD SPECTACLES, \$5 and upward. GOLD EYEGLASSES. PEARL OPERA GLASSES, FIELD GLASSES.

J. DIAMOND, OPTICIAN.

Goods sold lower than any other house in this city. del-42-p AMUSEMENTS.

DUQUESNE Pittsburg's Leading Theater, TO-NIGHT. EVERY NIGHT IN THE WEEK, MATINEE SATURDAY.

> 8 BELLS With the famous Brothers Byrne. WEEK DEC. 14,



SHENANDOAH. Matinees Wednesday and Saturday. Dec. 14—Corinne and The Kimball Bur lesque Co. in "Carmen Up to Date." de6-52 THE ALVIN THEATER CHARLES L. DAVIS...Owner and Manager To-night and Wednesday and Saturday

MR. E. H. SOTHERN, Under the management of MR. DANIEL FROHMAN.
First time here of his great auccess,
THE DANCING GIRL.
de7-24 Next Week—CARMENCITA.

GRAND SEE TO-NIGHT, Matinee Saturday.

Miss Ffolliott Paget THE LAST WORD. Prices, 15c, 25c, 50c, 75c and \$1 00. Next Week—Charles Dickson in "Incog."

THE NATIONAL PAGEANT. Living, Moving, Speaking, Singing, Daucing. The development of the United States of America. Eleven Great Historical Tableaux. THE AUDITORIUM, Penn avenue, near Sixth atreet, Pittsburg,
DECEMBER II AND 12.
Reserved seats, \$1: admission, 75c. Reserved,
seats at Mellor & Hoene's, 77 Fifth ave. 200
Artists. Brilliant Effects. Calcium Lights.
de6-53

HARRY WILLIAMS' ACADEMY—
TO NIGHT,
Matinees Tuesday, Thursday and Saturday,
REILLY & WOODS'
BIG SHOW,
HADES AND THE 400. de6-87 HABRY DAVIS' FIFTH AVE. MUSEUM.

THEATER.

LINUS,

4100,000 OREGON EQUINE WONDER.

Admission, 10c; children, 5c.

Doors open at 11 A. K. all this week.

NEW ADVERTISEMENTS.

The Latest European Novelty

RUBEN



THE MONTE CARLO.

Extract from a late Monte Carlo cable item: "Albert Edward, Prince of Wales, and several of his intimate chums were seen to enter the Casino wearing peculiar peakshaped soft hats, which, owing to this high indorsement, have become all the go."

We are proud of our achievement in being the first in the field with this exceedingly handsome hat, and can assure our thousands of patrons that they will find the Monte Carlo not only correct in style, but surpassingly comfortable above any other kind of headgear.

RUBEN

The Hatter and Furnisher, 421 and 423 SMITHFIELD STREET

BISQUE BEEF **GIVES HEALTH** AND STRENGTH. ALL DRUGGISTS.

\$1 A BOTTLE.



Of one thousand and one styles of fine piece cloths for making to order; lowest popular prices, perfect fit and workmanship guaranteed. Every garment warranted in



954 and 956 Liberty St.





42 Federal St., Allegheny. Send 2-cent stamp for our new system of fitting ourselves with glasses by mail. no29-TuFSu



ALL ABOARDI GOODBY To all imitators of Diamonds. We leave them all far behind. There never was as brilliant stones as

Voltaic : Diamonds! And there never will be. They are not glass or paste, nor made from chemicals. The public has had enough of that kind. They are the pure crystal. Call and see them for yourself. Compare them with your own genuine diamonds. The finest Brilliants in the world. They never fade. Covered by letters patent. Not in the hands of other jewelers. Every stone warranted. Beware of imitations sold under various other misleading names. All mounted in solid gold. BERNARD E. ARONS, Jeweler,

SOLE OWNER,

65 FIFTH AVE.

NEW ADVERTISEMENTS.

The use of Handkerchiefs a distinctive mark of civiliza-

Our own experience is that every season witnesses in this community an increased demand for this article. More bought. More sold.

Belfast is the center of the Linen Industry of the World. The Handkerchief branch of it being almost confined to that City of Ireland, where the industry is now several hundred years old. By-andby, possibly the tariff will enaable us to grow the flax and weave superior linens in this, the best country the sun ever shone on. For the present, however, good Irish Linen Handkerchiefs will do-they're good enough for the most fastidious.

Anticipating an increased demand for this year and particularly for Christmastide, 1891, our importations have been on an unusually liberal scale. Orders were given last January -and the women folk of the Irish peasantry have been engaged on the needle-work on the embroidered ones of this order ever since. The goods are now all in stock-new, fresh, different patterns than you've heretofore seen.

On these Ladies' Embroidered Handkerchiefs prices begin at 10 cents and stop at \$6.50 each—and intermediate prices with stair-like regularity.

Then there are the plain, everyday Handkerchiefs-plain white Hemstitched-that most of the world finds good enough. In this line we are still selling repair free of charge for one the celebrated manufacture of Murphy & Stevenson, Belfast, and are so sure of the values we are offering for this Holiday Business in

Ladies', Men's, Children's Use,

are anxious to have you com- the lowest. Whether you buy or not, you are welcome always at pare them and if this line, in all qualities, for the prices, is not altogether superior-made of finer yarn, finer count, superior finish-then we will forfeit our judgment and your patron-

Special prices by dozen and half-dozen on all these plain hemstitched goods.

Initial Handkerchiefs are quite in vogue now; we have 10 styles.

An enlarged department.

An augmented force of sales-

A bewildering assortment opened to-day. Are you interested?

BOGGS & BUHL,

ALLEGHENY.

Will you come?

B. & B. KAUFMANNS'

NEW ADVERTISEMENTS.



SPECIAL FOR TO-DAY AND TO-MORROW!

out this surplus stock immediately, we have

greatly reduced the prices.

CHOICE \$10.

CHOICE

One table of \$15 Cassimere Suits. One table of \$16 Cheviot Suits.

CHOICE One table of \$14 Cassimere Suits. One table of \$15 Cheviot Suits.

One table of \$22 Worsted Suits. One table of \$24 Cheviot Suits. One table of \$20 Cassimere Suits.

One table of \$22 Diagonal Suits.

One table of \$16 Melton Overcoats. CHOICE One table of \$14 Chinchilla Overc'ts. One table of \$15 Kersey Overcoats. \$10. One table of \$15 Cheviot Overcoats.

CHOICE

CHOICE \$10.

CHOICE

CHOICE

\$15.

One table of \$22 Kersey Overcoats. One table of \$24 Melton Overcoats. One table of \$20 Beaver Overcoats. One table of \$20 Chinchilla Overc'ts.

BOYS' CLOTHING!

Equally Great Bargain Counters.

CHOICE.

One table of \$6 Kilt Overcoats, sizes 2 to 6. One table \$6 Kilt Suits, sizes 2 to 6. One table \$5 Short-Pant Suits, sizes 4 to 14. One table of \$5 Double-breasted Suits, sizes 6 to 14. One table of \$5 Cape Overcoats, sizes 6 to 14. One table of \$6 Warm Ulsters, sizes 6 to 14.

\$5 FOR CHOICE. One table of \$8 Finest Short-Pant Suits. One table of \$9 Long-Pant Suits, sizes 14 to 19. One table of \$9 Box Overcoats, sizes 6 to 14. One table of \$8 Melton Overcoats, sizes 14 to 19.

One table of \$8 Kersey Overcoats, sizes 14 to 19. One table of \$9 English Reefers, sizes 4 to 14.

FREE! THOSE SOLID OAK BLACKING CASES we give away with every Man's or Boy's Suit or Overcoat (of \$10 or more) are a present worth getting. They are worth \$2.50 at the least calculation.

Handkerchiefs KAUFMANNS'

Fifth Avenue and Smithfield Street.

CATALOGUE MAILED GRATIS! Write for one, if der goods by mail. It contains 120 pages.

LOVELY CHRISTMAS GOODS!

YOU are cordially invited to visit KEECH'S Big Stores and see the beautiful display of HOLIDAY GOODS. Everything in the household line at incomparably low prices. Our line of novelties comprises everything for In all widths of hems, that we the comfort, convenience or luxury of home. Our terms are easy and prices

923, 925, 927 PENN AVE. - NEAR NINTH STREET. OPEN SATURDAY EVENINGS.

SPECIAL NOTICE!

We wish to impress upon our customers and others that we have a very Special Bargain in all our extensive departments during the holidays, which we are sure will meet the patronage of everyone who may be looking for a good article at a price which we know cannot be equaled. Our store at this time is quite an exhibition, and it does a person good to visit us, and see our various departments filled and well displayed with all the choicest goods of the season. This week we will offer you "FOUR IMPORTANT" Bargains in LADIES' CLOAKS, at prices which we are sure will be of great benefit to those who may be in need of a "first-class garment." This is a "Saving Time." Well, you can save money this week in buying:

Ladies' diagonal cloth reefers, with four loops, at \$3 50; worth \$5 00.

Ladies' diagonal reefer, full shawl roll, coney fur, at \$4 75; worth \$6 50.

Ladies' cheviot reefer, full seal shawl roll, at \$5 25; worth \$9 00.

Ladies' diagonal cheviot reefer, astrakhan fur shawl roll, at \$7 75; worth \$10 50.

Come at once; this opportunity seldom offered; only at

DOUGLAS & MACKIE, 151, 153 AND 155 FEDERAL ST., ALLEGHENY. de6-xwg THE PEER OF ALL COCOAS.

defies all honest competition. Economical. Pure. Obtainable of any reliable grocer.