GERMAN GUNS VERSUS FORTS

Heavy Artillery Can Reduce the the explosive is something entirely new Strongest of Defenses.

NOT HARD TO TRANSPORT Planged Wheels and Caterpillar Traction Engines Make It Easy

Matter for Invaders to Haul Huge Destroyers. (Correspondence of the Associated Press.)

ROTTERDAM. September 19 .- "In view of the great results achieved by the new German guns a description of the modern fort may be of interest," says the military critic of the Nieuwe Rotterdamsche Courant He writes: When it becomes necessary to fortify

a terrain permanently forts are built at intervals of from three to six kilometers These forts are combinations of earthworks and such buildings and other structures as are needed. They are surrounded by deep moats with steep sides, on the far side of which barbed wire entanglements are laid out. In modern forts all structural walls are made of concrete, this applying to the turrets and barracks alike. The number of guns in a fort depends upon the system of defense of which the fort is a unit.

'In case a fort is not supported by flank works and is, therefore, a unit in itself. the effort is made to place as many guns as possible, selecting both large and small caliber pieces. In this manner a fort may be made very strong Another method is not to place so many pieces in the fort itself, but to depend upon the support of artillery stationed in case of war on neighboring points of vantage. Central Defense System.

The first system becomes the central point of the defensive force which may operate with the fort as support. According to the Belgian General Brailmont (well known military engineer), this method has the advantage of having all pieces constantly in readiness for action and surprises are guarded against. But it has the drawback of becoming easily the target of a concentrated fire of the enemy's heavy artillery. In case of combardment the enemy can make the turrets his goal or he can make the entire fort his target-which usually becomes the practice. If one fails to hit one thing, one hits the other. For theoretical reasons (proven correct by the essons of this war), there has long been held a prejudice against this system of fortification.

The second method seems decidedly better. Instead of having a few separate forts of great strength which the enemy can make the objective of the operations, one offers him a large number of small forts which in the first place are hard to locate and upon which a large amount of ammunition must be expended. In this case the forts are supporting points of the infantry position lying between them. Artillery of small caliber is used in this instance for the protection of the front and flanks.

The new German fortifications near Mets and Strassburg are of this latter consisting of small works surrounded by the usual obstacles (such as redoubts, trenches, mosts and barbed wire entanglements.) These forts are grouped and form units, each of which as its armored batteries (long range guns) and also sunken batteries of hightrajectory mortars. The intervening inpositions are supported by small field pieces.

Few Hundred Meters Apart. These forts lie merely a few art and are connected with subterranean passages which lead also to the barracke beyond the range of artillery | fire (making it possible to move troops nto the positions without exposing them to the hostile artillery fire. In this case the arrangement is such that the enemy would have to take one small work after | another, an operation which would cost

many lives. The speedy reduction of the fortresses Liege and Namur does not of necessity semonetrate that forts of the order first named have entirely lost their value, but it is certain that the forty-two centimetre pieces are just the thing for them. But against small forts with permanent tusschenlinien (intervening military works), the fire from these guns; while terrible in effect, would not so quickly complish the results wanted. An addiional factor in this is that the transportation of these heavy pieces is a difficult undertaking, which is also true of the secessary ammunition supply. To move these along an extended line of small

forts is a heavy task.

Overlooked One Possibility. From other sources it has been learned that all fortifications of the type favored by General Brialmont would have served their purpose well had the Germans failed to provide themselves with the forty-two entimetre pieces. It has been shown at Givet that the Austrian thirty-five centimeter mortar batteries, though smaller | in caliber and of lesser force of penetration, suffice amply to reduce a unit fort in little time. General Brialment and the French military engineers, it is said, made the mistake of taking it for granted that the twenty-one cent'metre guns of the Germans, and their own armies, were the last word of armament, having accepfed that the steel they were familiar with could not stand a greater chamberpressure. That a heavier piece would give more penetration than they calculated in their plans, they are said to have known. but they accepted that it would be impossible to transport such giants. In view of the fact that even thirty-aix norses have difficulty moving one of the German forty-two's, this conclusion was reasonable enough, explained a Dutch artillery officer, but neither General Stallmost nor the French engineers could foresee that motor traction would make such fremendous progress since the forts

they built were planned. Move Giants with Horses That the Germans and Austrians have noved their forty-two's and thirty-five's, respectively, by horses is a fact. But. this seems to have been done in terrain where the roads permitted of no other course. Invariably they are moved by powrful traction engines, which in addition to the piece itself, pull from three to four calasons. Recently a type of traction ensine, known as "caterpillar" has been observed, for use on bad roads and across plowed fields. In addition both the Geran and Austrian heavy pieces are mounted on a carriage, the wheels of which are fitted with flanges for use on the railroads. Whether or not this latter derice has been suggested by the war lot be said, but a few days ago nevral heavy German batteries were taken this manner over the Belgian rallads, the road tractor running on the salls also. Ordinary railroad cars trailing nd the ca'ssons carried the personnel

What sort of explosive the Germans time in the forty-two-centimeter shells is still a mystery. French officers of forts

the charge of the projectile is melinite, succumbing to them. but others have expressed the opinion that | Present Interesting Phenomena.

bombarded by the Germans maintain that application of oxygen will revive those plosion upon the chamber waits cannot be according to the Roelnische Zetung the the shell, first the one and then the other by a German ordnance expert during the

is said. The high-angle mortar forty-two ten kilometers. The flight of both shells it is seriously maintained, that the vac- if the ciaim of the German press, which The German forty-two is made with two requires a slightly smaller propelling is attended by a number of interesting coum created by the gases tend to not treats the results obtained very guardedly. and that the gases formed by it have larrels a long one for flat range fire, charge. The long-barrelled gun is used serial phenomena, which so far have only support the flight of the huge mass even greater expansion than those of and a short one for high-angle fire. In scalnst the faces offered by fortifications, been merely hinted at by German experts, of steel charge, but that they actually nitroglycerin, the strongest high cxplostve known. There is no doubt that
the vapors of the explosive have a violent
toxic effect and nothing but a strong

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One of them, however, is that the faces of freed by toxic effect and nothing but a strong pounds the pressure exerted by the ex- tively, eight and rive kilometers, while that in the end they are left behind by periments demonstrating this were made

less than 190 tons to the square inch, it flight of the shell exceeds twelve and having the greater speed, an indication, bombardment of Namur. Such at least

Setid Gold Pendant Laval-Hera-52 values, Saturday \$1.00 Real Amber Beads-Very nicely made; worth \$2.50. Spc. \$1.50

JEWELRY SPECIALS | Solid Gold Hat Pina-On sale 79c 10-year guarantee; with front knife pencil. Com-plete for. Real Made: worth \$2.50. Spe. \$1.50 in England. On sale at \$1.98 cial at Streeting Silver and Gold Filled Clutch Penells. Saturday \$1.00 in England. On sale at \$1.98 cial at Streeting Silver and Gold Filled Clutch Penells. Saturday \$1.00 in England. On sale at \$1.00 and \$1.00 in England. On sale at \$1.00 and \$1.00 in England. Special at \$1.00 and \$1.00 in England.

Bags—Many real leather 1990 LEATHER BAGS

\$4.00 and \$5.00 Values in Fine Leath-

\$2.00 and \$2.50 Value Leather Bags-Small real Morocco bags, silk lined, with inside purse and mirror; some with pannier handles, Also large and medium sized bags in seal, wairus and crope seal pressing. Saturday...\$1.00

The Store for Blouses

Offers many beautiful models that have just come in and are really worth \$5.00; for Saturday,

Pretty blouses in laces, lined with flesh color chiffon; low neck and long sleeves. New military and flare collars, in black

and white laces. Smart silk blouses in basque models. Otharound collar, cuffs 15 other charming models to select from. Saturday, at

Women's Overseam Kid Gloves

Made by V. Perrin & Cie. And guaranteed. Perrin names them "Corona" and they are up to Perrin's high standard in style, quality and fit. Light and medium weight. Two-clasp style. Come in black, white and colors. Every pair fitted to the hand-and should sell for more than \$1.25 a pairthey are above that in value.

We have a lower-priced quality of Overseam Kid Gloves which we can recommend for wear, at.... 95c Our Stock of Perrin's Kid Gloves Is Com plete, Prices Moderate, as Always-

ers semi-tailored One special quality of Leatherette Gloves Are models, braided Perrin's Kid Gloves, around collar, cuffs which should sell \$1 39 Price Saturday, . 1

These gloves are real kid, full plaue sewn and come in self or contrasting backs. These backs are four-row embroidered and look very smart. We were extremely fortunate in securing this lot and you will surely appreciate them. Every pair is guaranteed.

La Mure \$1.75, Belfort \$2.00. Becoming More and More Popular.

More Popular.

Their wearing quality and appearance recommend them and the moderate price they sell for makes them still more attractive. We carry a full stock of Kayser's Guaranteed Washable Leatherette Gloves. We feature a number of lines prominently—especially at 85c and 69c a pair. These gloves are guaranteed to be washable and guaranteed to wear and fit. We cannot recommend them too highly.



Just to bring 300 women to our millinery department Saturday morning early, we have selected these hats from our regular stock for a special sale. They are fashionable basque turbans, French sailors, tricornes and military toques-made in fine quality Saitz and Lyons velvet-seal brown, navy, military blues, cerise, battle green and plenty of blacks. All smart-

ly trimmed Just received a large shipment in all the new Ostrich Fancies pastel shades, including shell pink, sky blue, citron, white, black, gold and black and

white. Worth up to 98c. All go Saturday at.....

Women's All-Thread

Pure Silk Hose

Full fashioned, double soles, high spliced

heels and toes: in various colors, in-

Women's Fiber Silk Boot and Silk-to-the-Top Hose—In black and white, spliced soles, heels and toes, all full regular made with good sarter tops, 50c quality; Saturday, pair

Women's Silk Lisle Hose

In tan, black and white; full fashioned wide garter tops; double soles, heels

and toes. In medium and heavy weights. On sale Saturday, pair...... 25c

Wemen's "Black Cat" Brand Silk Liste and Cotton Hose—Some full fashioned; others seamless; in heavy and light weight and fleecy lined. All have double soles, heels and toes; regular and extra sizes. Worth 25c; all 12½cc

Children's Hose, Half Price Children's Fleecy Lined, Fine Heavy

Ribbed Cotton and Lisle Hose-All

have double knees, high spliced soles,

heels and toes; medium and heavy weights. Worth 25c; 121/2C

perfect; all well-

known makes.

Worth \$1.00 and

\$1.50. Special Saturday, pair......

cluding black and white. Every pair

Brandeis

For Women and Children

Women's Union Suits-In medium weight and fleecy lined cottons; high neck, long sleeves; Dutch neck, elbow, and low neck, elbow; in ankle lengths; regular and extra sizes. At a special

women's Union Suits—In medium and fleecy lined cottons, high neck, long sleevs, Dutch neck, elbow sleeve, low neck, fleeveless, in ankie length, worth up to \$1.00, at.

Women's Union Suits—In part wool and fine cottons, all styles and sizes, worth up to \$1.50, \$1.00 at.

Women's Union Suits—In part wool and slik and wool; plain and Swiss ribbed; all styles and sizes; worth \$1.98 at.

Women's Corset Covers In medium weight and fleecy lined cottons; high neck, elbow basement, 25c quality.....

In fleecy lined cottons, cream and gray, high neck, long sleeves, ankle, open crotch and drop seat; all 50c sizes to 16 years, at. up to \$1.50. Children's, Misses' and Boys' Vests

Pants and Drawers -Fleecy lined cottons; to 16 years. At, garment.... 20 Children and Boys—In flat wool, broken lots and sizes, white and gray. Garments worth up to \$1.00.

Infants' Part Weel and All Weel Vents-Buttoniess and wrapper styles; 50c values; all sizes; 29 Saturday at

Infants' Part Weel and Fine Cotton Vests
—Buttonless and wrapper styles; worth
to 35c; all sizes. to 35c; all sizes, Saturday, each

Toilet Goods, Drugs

It Pays to Watch These Specials Every Saturday -Always Big Values.

Extra Special Sat'y

The "Madewell" Hot Water Bottle.

Made all in one piece, no seam; in red or maroon rubber. Full 2-qt. guaranteed, and postively worth \$2.50. At .. Trained Nurse in Charge of Our Rubber Goods Department.

UNDERWEAR Last Lots From Our Purchase From Overstocked Mfrs.

Are Here On Time for Saturday's Selling, and They Are the Biggest Values of All



The summer-like weather of early and mid-fall crushed many manufacturers under a terrific accumulation of made-up garments. Our ready cash and ability to dispose of large quantities brought us these enormous price concessions:

Suits worth to \$25, \$1 375 sented. Suits that you never expected to buy at such a low price as in this sale Saturday.

Suits worth to \$45, \$2500

Many sample suits in cluded in this collection. sell for up to \$20 higher than Saturday's

CHILDREN'S COATS

pretty materials and colors, CHILDREN'S COATS, \$2.98 and \$3.98

Ages 2 to 6 Years.

made of warm chinchillas, cheviots, corduroys,

GIRL'S DRESSES

Smart little coats for the little tots. Coats

JUNIORS' COATS

Worth to \$15 \$6.98

Worth to \$3.00

Coats for tols of the

years. Warm coats, of

kind-2 to 6

heavy warm materials.

teeny

CHILDREN'S DAY SATURDAY

With Bigger Values Than Usual, Because in Our Big Purchase of Women's Apparel Was Also Included Several Hundred Coats and

Dresses for Misses, Juniors and Little Tots.

13, 15, 17 and 19 years. All in pretty plaids, checks, chev

good youthful models; made of lots, chinchillas and zibelines;

Ages 6 to 14 Years. for dresses of good serges

and plaid materials; pretty

styles for school wear. All

for smart dresses that are

very serviceable as well as pretty and practical. Many

styles and colors

CHILDREN'S COATS

Worth to \$15 \$ C

pretty girl-ish styles

all colors.

Coats worth to \$20, \$ 1 It is unbelievable the bargains you will see at this price. Many styles and every kind of desirable material. All

Coats worth to \$25, \$ 1 Beautiful new models; excellent materials; coats that have all the style and value of garments selling usually

For Women

THE FAVORED FOOTWEAR

The tops are gray or fawn leather

or cloth and the vamp is of patent

leather. Narrow or broad

toes in this style, so as to af-

ford comfort-as well as style

sizes and widths. Prices, \$7.50,

-to any shaped foot.

Per

TROOPER BOOTS

For School Girls

ular. Patent leather or dull calfskin. Natural-shaped and

perfect-fitting styles. All sizes.

111/2 to 2- | 81/2 to 11- | 6 to 8-

\$1 98

Tops a little higher than reg-

\$6.00 and

this fall with smart women.

Dresses worth to \$15, \$77 Satins, crepe 'de chines, crepe meteors and serge and satin combinations. We got the biggest discounts on dresses in our purchase,

Dresses worth to \$20, \$0.75 styles; smart effects in combinations; all colors. Very big Sizes for women and misses.

Men's Liste Hese—2 Pair 25c. 3 various colors; heavy and light weights; full fashioned and seamless; double soles, heels and toes. 121/2c WOMEN'S NECKWEAR

All That is New and Stylish

Our special value square will interest you particularly Saturday. We are showing collar and cuff sets in hemstitched Swiss and pique. The set for

Pretty Lace Trimmed Swiss Col. 25c

Art Goods Section

Fancy Topped Shoes

3d Floor-4 Specials Saturday LUNCH CLOTHS—Stamped on pure Irish linen. 45 and 54 inches; in floral and conventional designs; \$1.50 to \$2.60 values. Special, \$1.00 STAMPED PILLOW CASES—On tinental tubing, 42x35 inches; also day cases. 50c value. Special pair CHOCHET COTTON-in MERCERIZED CHOCHET COTTON-in Peri

cordonnet, special bucilia Lusta; in white and ecru; sizes 3 to 50. Special, NEW BUNGALOW COVERS—12 doilies, 2 ovals and cover; stamped in cross stitch on Oyster linen. Extra special value for Saturday, \$1.50

PHOTO SUPPLIES

Main Floor-Special Attractions. No. 2 Buster Brown Film-At....18c No. 2A Buster Brown Film-At 220 Post Card Size Film—Special at....340
M. G. Developer—7 tubes for.....250
No. 2 Scout Camera—Regular \$2. \$1.59 Kodak Albums-Special at

We Develop Films Free When Ordering Prints

Toy Section In Pompeias

Pay a visit to our toy department in the Pompelan Room Saturday. You will find it full of toy bargains. Our toys all arrived before the war, therefore no increase in prices. no increase in prices.

Rall Bearing Roller Shates—Spacial Satur—

day \$1.39

Nam-Breakable Dolls— 25c

For baby 25c

Fine Dressed Dells and 49c

Kidfyn Dolls—Saturday 95c

Light and dark 95c

Celluloid Bables— \$1.50

Bell Go-Carts, 39c

Saturday 49c
Express Wagons, \$1.50
40c, one
Kewpte Nevettles—For favors.
from 15c up
50c

HAIR GOODS Sale Saturday, Second Floor, and Pompeian Room.

Switches, three \$798 separate stems, special at.....

All Hair Goods at Just Half Regular Prices Saturday Only

Have You Read Our Men's and Boys' Advertisement on Page 6

We do manicuring, hairdressing, shampooing, children's hair bobbing. Appointments made over telephone.

2,000 Chrysanthemums For Saturday

Large yellow, pink and white Chrysanthemums. Regular 25c size.

Long stem Roses, 49c per dozen. Cut Plower Dept.-Main Ploor.

\$3.95 Aluminum Ware, \$1.98

ers, The

best shoes

sell at,

pair

made

300 pieces of high-grade aluminum

\$1 75

"BRANDEIS SPECIAL"

Shoes for Women

In patent or dull leather:

cloth or kid tops; button

styles; all sizes and all

popular with critical buy-

the new effects.

ware on sale Saturday: -200 Coffee Pots and 100 Tea Kettles. Seamless; no enamel or plating to fiake off: light in weight but strong and durable; looks like lver-the best ware to buy. Choice Saturday at \$1.98. 10c Lindsay Mantles Te
15c Lindsay Mantles 19c
25c Lindsay Mantles 19c
21.50 Large Enamel Roasters,
each 11.48
Complete stock
of Fancy Gold
Fish and Gold
Fish necessities at
reduced prices.

CANDY SECTION

In Pompeian Room. Fresh Home-Made Peaaut Brittle—Special
Saturday, Ib.

Assorted Fresh Coconnut Cream
Bulls—Vanilla, strawberry and chocolate
dips, at, Ib.
Vanilla and Chocolate
Cream Brusil Nuts—
Saturday,
Ib.
39c 39c Special Opera Creams—With pecan nuts and fruit inside. Saturday, 250 25c Our Delicious Creamy Pompeian Bitter Sweet and Swias Style Chocolates Creamy nut and fruit centers. Saturday, 29c 29c Our Home-Made Maple Confection-Fresh ev-ery Saturday, 1b......

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