JAPAN'S WAR METHODS

Strange Story of Shimose, The Terrible Explosive.

[T. P.'s Weekly.]—Fifty years ago, in were preparing to attack Russia in the days when France and England of Japan paraded in quaint scale the Crimea, when Capt. Arthur had not yet surveyed and given his name to the famous port in the Liao-tung peninsula, when Vladivostok was a fishing village, with a now forgotten name, and Petropavlosk, far north in Kamskatchka, was the only Russian port in the Far East, the feudal armies armor, huge helmets and hideous masks, and carried pikes, two-handed swords, and a few matchlocks. Within the half-century since then Japan has adopted the methods and the arms of the West. But very few people realize that the Japanese have not merely come to civilized Europe for their weapons and their tactics. At first, it is true that they had to depend on Europe and America for all their armaments. But in the last twenty years they have been working hard to become independent of other nations in such matters. They are no longer mere learners. They have "bettered the instructions" of their tachers; and their soldiers, their men of science, and their mechanics have provided them with formidable weapons of Japanese invention and of Japanese manufacture.

SOME JAPANESE INVENTIONS.

Their navy still depends on foreign shipyards for battleships and powerful cruisers, and for naval artillery they go to foreign factories. It is a severe tax on the resources of the country. The yen, worth about a florin of our money, is the Japanese standard of value. Broadly speaking, the buying power of the yen in native Japan (but not in the tourist resorts) is equivalent to nearly a pound with us. This is its equivalent value in labor, in food, in tax-paying power. A battleship costs, say, a million sterling, that is about ten million yen. It costs, therefore, in equivalent value, many millions. To obtain one battleship is as great a strain on Japanese resources as it is for us to launch a powerful squadron. The Chinese indemnity and the loans floated after the war have given Japan her splendid fighting fleet, but even with this help its maintenance and the interest on the capital thus employed is a heavy strain on the country. Japan would never have prepared for the present struggle with Russian if her own indsutrial and engineering resources had not enabled her to provide a great part of her armaments in her own arsenals and factories. For her navy she has built a number of smaller craft, and among them some of her best torpedo boats and destroyers. But her army is almost entirely equiped by her own workers, and in every department of sea and land warfare the Japanese inventor has been busy. Among the more notable inventions may be mentioned the Murata rifle, the work of Col. Murata of the engineers; the Arisaka gun, invented by Col. (now general) Arisaka; the Ijuin fuse for shells, the invention of Vice-Admiral Ijuin, vice-chief of the naval general staff; the Oda mine, invented by Commander Oda, I. J. N., and the Shimose powder, a high explosive, invented by Prof. Shimose, one of the most distinguished scientific men of Japan.

DESTROYED MAKAROFF'S FLAGSHIP.

About some of these inventions little or nothing was heard here in Europe until the war gave practical proof of their terrible efficiency. Thus the Oda mine was first talked about after the dramatically swift destruction of Makaroff's flagship, the ill-fated Petropavlosk. According to a Japanese authority, the invention consists not so much in the mine itself as in a device for rapidly and safely mooring automatic mines at the proper depth. It is claimed by the Japanese that is was one of these mines, laid under Commanders Oda's supervision, that destroyed the Petropavlosk. The mines are of large size, and carry a heavy charge on explosives. As they are fixed in one spot they are not like the dangerous floating mines which the Russians are said to have let loose in the Chinese seas. They have also the advantage that the automatic firing gear of the mine cannot work till the mooring operation is complete. The secret of the arrangement has been well kept.

PROF. SHIMOSE.

The Japanese shells, torpedoes, and mines all owe much of their exceedingly high explosive power to the substance used in charging them, the now famous Shimose powder. Before the war the name of its inventor, Prof. Shimose, was quite unknown in Japan tiself. His experiments were never published, for it was intended to keep secret as long as possible the fact that the Japanese army and navy possessed this new material. Shimose was born in 1858, and took his final degrees in science at the somewhat late age of twenty-six in 1884. He had taken chemistry as his special subject of study, and did much of his work under Prof. Divers, a Scotsman, who then occupied the chair of chemistry at the Tokio university. After obtaining his degree he worked for some months in the university laboratories at Tokio, and it was then his attention was first turned to the question of improvements in high explosives. He then entered the ogvernment service, and after acting for two years as chemist to the imperial printing office, he was transferred to the navy department. He introduced several improvements into the proscess of powder-making in the government mills, and during the researches connected with this work he obtained, it is said by a mere accident in the first instance, the clew to the new powder of which he had long been thinking. The perfecting of his discovery cost him ten years of experimental work, some of it of a very dangerous character. Twice he was badly wounded by explosions in his workshop, and one of his hands is to this day partly crippled as the result of one of these accidents. On another occasion during a trial of the powder a heavy gun burst on the range and sent several of its fragments within a few feet of Shimose, who was watching the firing.

THE VARIAG AT CHEMULPO.

In 1893 the invention had advanced so far that the admiralty promoted the inventor and awarded him a special grant of money. When the Chinese war broke out next year, Japan had no plant for making the new powder on a large scale, and had in store only small quantities for experimental purposes. So the occasion for using it in actual war passed by. In any case the inventor was not yet satisfied that the new explosive was all he could make it. In 1897, however, he had completed his researches, and a plant for the regular manufacture of the powder on a large scale was laid down in the arsenals. After it had blown at least one big gun to fragments in the earlier experimental stage, Shimose had given up the idea of using the new powder for the charge in the big gun, and confined his efforts to making it safe and effective for the charges of shells, mines, and torpedoes and for engineering work. The fight with the Variag at Chemulpo revealed at once the existence of the new explosive and its terrific power. The narratives of the Russian officers tell how a bursting shell blew part of the end of the ship's bridge into small pieces, while the bodies of the two men who were near the point of explosion were scattered in unrecognizable fargments. The doctors who treated the wounded were surprised at finding that they had been injured not by large shell splinters, as would be the case with ordinary shell fire from naval guns, but that they had to extract from the bodies of their patients numbers of small shell fragments, each sufficient to inflict a serious wound. The Shimose powder seems not merely to tear the shell open, but shivers the steel into hundreds of small pieces, each capable of killing or wounding a man.

SECOND ONLY TO NITRO-GLYCERINE.

It is claimed for the new explosive that it is perfectly safe to handle. It can be kept at varying temperatures without change of character. It can be hammered, and bullets can be fired into it without exploding it, and if it is deliberately set on fire it burns without much flame, and can be easily extinguished with one bucket of water. In experiments against armor plating with the Shimose charge and the Ijuin fuse the shells appear to burst while penetrating the plate, shattering it, and projecting a shower of fragments inwar. The inventor claims that in destructive power it is second only to nitro-glycerine and superior to gun-cotton and dynamite, but safer and more reliable than all three. The extent of the damage done by the Japanese torpedoes and mines to the Russian ships points also to the effectiveness of the new powder for such work. The Japanese speak of the Tokio chemist as one of the men who has given their country victory. They rank the scientific worker in the laboratory with the admirals and generals who have led their fleets and armies in the actual fighting.

A Thousand Dollars' Worth of Good.

"I have been afflicted with kidney and bladder trouble for years, passing gravel or stones with excruciating pains," says A. H. Thurnce, a well known coal operator of Buffalo, O. "I got no relief from medicine until I began taking Foley's Kidney Cure, then the result was surprising. A few doses started the brick-dust-like substance and now I have no pain across my kidneys and I feel like a new man. It has done me $1,000 worth of good." Foley's Kidney Cure will cure every form of kidney or bladder disease. Sold by F. J. Hill Drug Co.

A GRAND CHORUS OF BARGAINS

MONDAY That Will Cause Thousands to Flock to "F. Auerbach & Bro., THE STORE OF THE MASSES" MONDAY

ESTABLISHED 1864

F. Auerbach & Bro.

ONE PRICE TO ALL NEVER UNDERSOLD

FROM the opening hour Monday Morning to the closing hour Saturday evening we promise such values as are rarely seen—it's the best collection of Special Values we have ever advertised in one day, and the consequence will be—the people will be thronging Dry Goods Headquarters to supply the many needs of the season. BE WITH THEM MONDAY.

ECONOMICAL and particular people will be interested in next week's announcement—The newest and most up-to-date Spring Merchandise go at prices that save you money. Every value mentioned below is a stirring business-bringing offering. Every price is a powerful inducement. Read about them and don't fail to visit Auerbach's Monday.

MONDAY! 9 to 12 o'clock.

Monday 9 to 12 o'clock. Special TOILET SOAP. Witch Hazel fine Toilet Soap, a splendid 10c bar soap on sale at 3 Bars for 10c

Monday 9 to 12 o'clock. The Best 20c quality Hemstitched PILLOW CASES 42 and 45 inch size, Monday from 9 to 12 o'clock at 12c

Monday 9 to 12 o'clock. The Real Defender Hemmed BED SHEETS Bleached and Ironed 1-2 yds. long and 2 1-4 yds. wide—regular price 90c 64c each.

Reduction in Prices! BUTTERICK PATTERNS 10c, 15c, and 20c None Higher.

AFTER EASTER REDUCTIONS!

The Easter Rush has left us with a great number of broken lines which we are anxious to dispose of without delay. We have taken a generous slice off the prices, and are confident, that the temptation to buy will prove very great.

AFTER EASTER SALE OF WOMEN'S WALKING SUITS, $27.50 VALUES FOR $12.00. After Easter we find it advisable to replenish the assortment and fill in the size gaps in our line of $12.00 Tailor-made Suits, caused by tremendous pre-Easter Business. We have assembled all the odd and small lots of higher priced Suits, up to $27.50, and reduced them to 12.00

SWELL TAFFETA SILK SHIRT WAIST SUITS in blue, black, golden brown and jasper gray, fancy tucked waist, skirt trimmed to match, $15.00 and $16.50 values for $9.95

PONGEE SILK SHIRT WAIST SUITS. One of the dressiest and greatest values ever offered, made with strapped front and pleated back, ornamented with small buttons, new style skirt, come in golden brown, blue and black, $25.00 values for 16.95

NEW LAWN SHIRT WAIST SUITS, dotted and figured lawns, lace and tucked, trimmed waists, skirts to match, regular $6.00 values for $3.95

COVERT CLOTH COATS—Very fine all wool covert cloth coats, 24 inches long, beautifully tailored and stitched, semi-fitting, satin lined, all sizes. $12.00 values for $8.50

IN OUR CLOAK and SUIT ROOM

Come in tomorrow and take a look among the lines you are most interested in—You will find many agreeable surprises in the way of price reductions, and quite likely just the garment you want.

SICILIAN WALKING SKIRTS, in black, brown, blue and gray, plaited and stitched down to knee, also all colors in Fan plaited style, $5.00 values for $2.95

NEW LAWN WAISTS—Pretty tan lawn waists with small pin dots, plaited front and back, fancy stock collar and tie, excellent waist we purchased at a low price, $2.00 values for $1.25

FANCY JAP SILK WAISTS—The best Jap silk waists ever shown at such a low price. Front is elaborately trimmed with cluster tucks and valenciennes inserting, very fancy design. Waists costing $3.50 are no better, our special price $1.98

NEW HOUSE WRAPPERS, Percale Wrappers, black and blue figures and dots on light and dark grounds, ruffled and braid trimmed, extra full width skirts, leg o' mutton sleeves, $1.25 and $1.50 values for ..... 95 cts

BIG SPECIAL FOR MONDAY.

300 BLACK SATEEN PETTICOATS, at 93c each.—Choice of six different styles of black sateen petticoats (THE ELITE MAKE) all new 1905 designs, regular $1.25 $1.50 and $1.75 values. Monday's price, each ..... 93 cts

MONDAY! 2 to 5 o'clock.

Monday 2 to 5 Special! BELTS Buster Brown Black Patent Leather Belts regular 25c kind on sale at 12c

Monday 2 to 5 Specials! Embroidered SILK MULLS In dotted effects—in white, cream, pink, light blue, canary, red, nile green and black—value 45c at 24c a yard.

Monday 2 to 5 Special! LADIES' VESTS Sleeveless Swiss rib ed Vests, all sizes for Ladies, best 20c grade on sale at 10c

Monday 2 to 5 Special! Soft English NAINSOOK. Value 30c a yard. Monday from 2 to 5 o'clock, per box containing 12 yards for $2.20

More Inside Prices on SILKS and DRESS GOODS!

There is a combination of price force and quality excellence contained within the goods advertised to-day that easily places them in the foremost rank of attractiveness and desirability. Come and see them.

KERSEY TAFFETA SILK—27 inches wide, something new, heavy quality, suitable for shirt waist suits and coats, a silk that will not tear or break and cannot be beaten for wear in colors navy, brown, grey, tan, cream and white and well worth $1.75. Monday's price $1.25

PONGEE SILKS—150 pieces of American and natural shantung Pongees, bought at greatly reduced prices, have just arrived and among them will be found priced as follows:

$1.50 natural Shantung Pongee, 36 inches wide, Monday's price $1.25

$1.25 natural Shantung Pongee, 36 inches wide, Monday's price $1.00

90c Domestic Ponge, 27 in. wide, Monday's price 75c and 65c

70c Domestic Pongee, 23 inches wide, Monday's price 59c

60c Domestic Pongee, 20 inches wide, Monday's price 49c

WOOL VOILE SPECIAL—20 pieces all wool fancy voile marked for this week's selling regardless of cost, or value, a fine, crisp, sheer quality in a complete range of colors. Regular value 75c, SPECIAL (per yard) 48c

FRENCH SERGE SPECIAL—Guaranteed all wool fine twill serge, 46 inches wide, very stylish and serviceable for skirts and suits in blue, tan, brown, gray, Cadet red and black. Regular value 90c. SPECIAL (per yard) 67c

BLACK GOODS SPECIAL—Your choice of ten styles of all wool black dress goods, consisting of voiles, granites, henriettas, armures, serges, cheviots, nuns veiling, also plain and fancy silk lustre mohairs. Regular value up to 90c. SPECIAL MARK DOWN PRICE (per yard) 57c

CHALLIE SPECIAL—40 pieces plain and figured, all wool, best quality French Challie, in dots, fancy stripes, Persian and neat figured designs. Regular value, 65c and 75c. SPECIAL MARK DOWN PRICE (per yard) 48c

WHITE JAPANESE SILKS—Big arrival of 100 pieces of white Japanese silks in all widths and prices including both the Taffeta finish and the soft glossy. Suitable for all purposes. Ladies waists and dresses, Childrens wear and Graduating dresses are the best imported and washing qualities.

20-inches wide, Monday prices—30c and 37½c

24-inches wide, Monday prices—39c, 45c and 60c

27-inches wide, Monday prices—60c, 70c, 75c, 85c, 90c and $1.00

36-inches wide, Monday price—per yard $1.35

MUSLIN UNDERWEAR SPECIAL OFFERINGS!

The extraordinary values which are the rule in our muslin underwear section are put into the shade by this week's special offerings.

DRAWERS.

Ladies' Drawers of good muslin with 5 inch deep ruffle, all sizes, open or closed, best 25c grade at.... 18c

Ladies' Drawers with 6 inch deep hemstitched tucked ruffle, splendid material, open or closed, all sizes, best 35c grade at 25c

Ladies' Drawers, open or closed, all sizes, made of best muslin, trimmed in 4 inch open worked embroidery ruffle extraordinary value at.. 50c

NIGHT GOWNS.

Night Gowns of good muslin, cut full length and width, with double back and tucked front yoke, hemstitched ruffle on neck and arm holes, all sizes, best 65c value at..... 39c

Night Gowns of fine cambric, prettily trimmed in lace and embroidery, all sizes, a $1.25 gown on sale at 89c

Ladies' Gown of splendid muslin, with yoke of embroidery insertion and tucks, and hemstitched ruffle on neck and sleeves, all sizes, an excellent 85c gown at 59c

Ladies' Gown of fine nainsook, yoke of Swiss embroidery insertion and hemstitched tucks and wide embroidery edged neck and sleeves, all sizes, good $1.50 grade at..... 1.00

CORSET COVERS.

Ladies' Cambric Corset Covers, embroidery trimmed, all sizes, good 20c value at..... 12c

Fine Cambric Corset Cover, all sizes, trimmed with 2 rows of torchon lace insertion and edged with torchon lace on neck and arm holes, special leader at..... 25c

Fine nainsook Corset Cover with hemstitched ruffle on front, neck and arm holes, all sizes at..... 50c

Nainsook Corset Cover, extra fine quality, trimmed in val. lace insertion and hemstitching and edged with Valenciennes lace on neck and arm holes, all sizes, splendid $1.00 grade at..... 75c

Nainsook Corset Cover, with tucked back and front, and neatly trimmed in fine swiss embroidery, all sizes at..... 89c

SKIRTS.

Ladies' muslin skirt, with 9-inch deep ruffle, trimmed in 4½ inch deep embroidery and hemstitching, with extra dust ruffle, all sizes at..... 83c

Ladies, Skirt, with 15 inch deep umbrella ruffle, trimmed in torchon lace edging and insertion and hemstitched tucks, an excellent $1.75 skirt at 1.15

Money-Saving Prices on Stunningly Stylish

Millinery!

No extravagant profit here, for everything is marked at prices that seem surprisingly low, especially if you've shopped around and are posted, for its our aim and determination to undersell the whole town. We are prepared to make this the banner week of the season for Millinery. Hundreds of hats, trimmed, ready-to-wear, and untrimmed, will be sold at special low prices. For this week our $6.00 and $7.00 Trimmed Hats at—

$4.63

Our Boys' Clothing Dept.

Is adding new laurels to its wonderful achievements. It has far exceeded all past selling records this season. It's fully evident that the parents of Salt Lake boys appreciate the inimitable buying advantages to be accomplished in this progressive department.

BOYS' WASH SUITS—In dark and light percales, nastly made with large sailor collars, ages 3 to 8 years, price 49c

BOYS' BUSTER BROWN WASH SUITS—In extra good quality percale and madras, ages 3 to 8 years, worth $1.25. Special price 1.00

BOYS' KNEE PANTS SUITS—In dark and fancy tweeds, styles, Norfolk and square cut, ages 4 to 16 years, price $2.50

BOYS' KNEE PANTS SUITS—In fancy dark tweeds, the pants with double knee and seat, warranted not to rip, ages 8 to 15 years, price $3.50

BOYS' SQUARE CUT DOUBLE BREASTED SUITS—In fine all wool tweeds, the pants with doubled knee and seat, ages 8 to 16 years, price $5.00

YOUTHS' LONG PANTS SUITS—In square cut and double breasted styles, neatly tailored in fine English serge, ages 15 to 20 years, price $9.00

Linens and Towels.

That are safe to save on. The sort that has made the Auerbach Linen Department's enviable reputation, the sort that is bought here every day with utmost confidence as to quality, because purchasers know that the Auerbach Lines are honest and that prices are always way below others.

This week's items are worthy examples of usual economies:

100 Dozen hemmed Huck Towels in the Birds Eye weave, good weight, and a good drier, 19 inches wide and 38 inches long, value 15c. Special for this week at, each 9½c

100 Dozen Turkish Bath Towels, cream tint, made of twisted yarns with fast selvages, an extra heavy quality, 20 inches wide and 42 inches long, a leader at 11½c. Special for this week at, each 12c

10 Pieces family Table Linen, German makes, pure Linen Damasks, satin finished, soft, and solid wearing qualities and silver bleached, in Fleur de Lis, polka dots, chrysanthemum, rose, poppy and lily designs, 60 inches wide, values 70c. Special for this week, per yard 47c

Drapery Bargains.

We are offering Curtain Bargains that by actual comparison will prove to be the very best quoted in Salt Lake. It is an emphatic demonstration of our policy of always underselling.

50 pairs Arabian colored Lace Curtains in beautiful selected patterns, among them the new Gothic Curtains, made of extra heavy cable net, full 3½ yards long and 50 inches wide. It will take an expert to distinguish them from the real lace at your windows. The greatest $4.00 values. Special for this week, per pair 2.60

The greatest offer and the largest assortment of high class Tapestry Portiere Curtains, comprising Ottoman, Bagdad and side bordered effects, full widths and full lengths; all rich colorings; $6.50, $7.50 and $8.00 values. Special for this week, per pair $4.95

Ladies' Low Shoes

"Are all the Rage." We Shoes Everything that is new in Blacks and Tans at Lowest Prices IN OUR SHOE DEPARTMENT

LADIES' LOW SHOES, worth $2.00 (cloth top and all kid) at $1.75

LADIES' LOW SHOES, worth $2.25 (blacks and tans) at $2.00

LADIES' LOW SHOES, worth $3.00 (light or heavy soles, blacks and tans) $2.50

LADIES' LOW SHOES, worth $3.50 (tans, browns, champagnes and black, welts and turns) at $3.00

LADIES' LOW SHOES, nothing finer, (all kinds, all styles) at $3.50

IT WILL PAY YOU TO BUY YOUR LOW SHOES AT AUERBACH'S.

Wash Goods!

Our Wash Goods Items for this week are merely mentioned here to illustrate the very important fact that our prices are lower than elsewhere for similar qualities and styles—that's why we sell more Wash Goods than any other store—the closest comparison proves it.

50 pieces Novelty Organdies and Silk Organdies, the leading fabric for church gowns and class dresses—sheer and beautiful—in 50 exclusive styles; rose patterns, carnation, pansy, poppy; violet, apple blossom and other floral printings, value 45c, at, per yard 30c

The New Embroidered Mercerized Pongees in dotted effects from the pin dot to the largest size—exquisite for shirt waist and shirt waist suits—value 50c, at (per yard) 35c