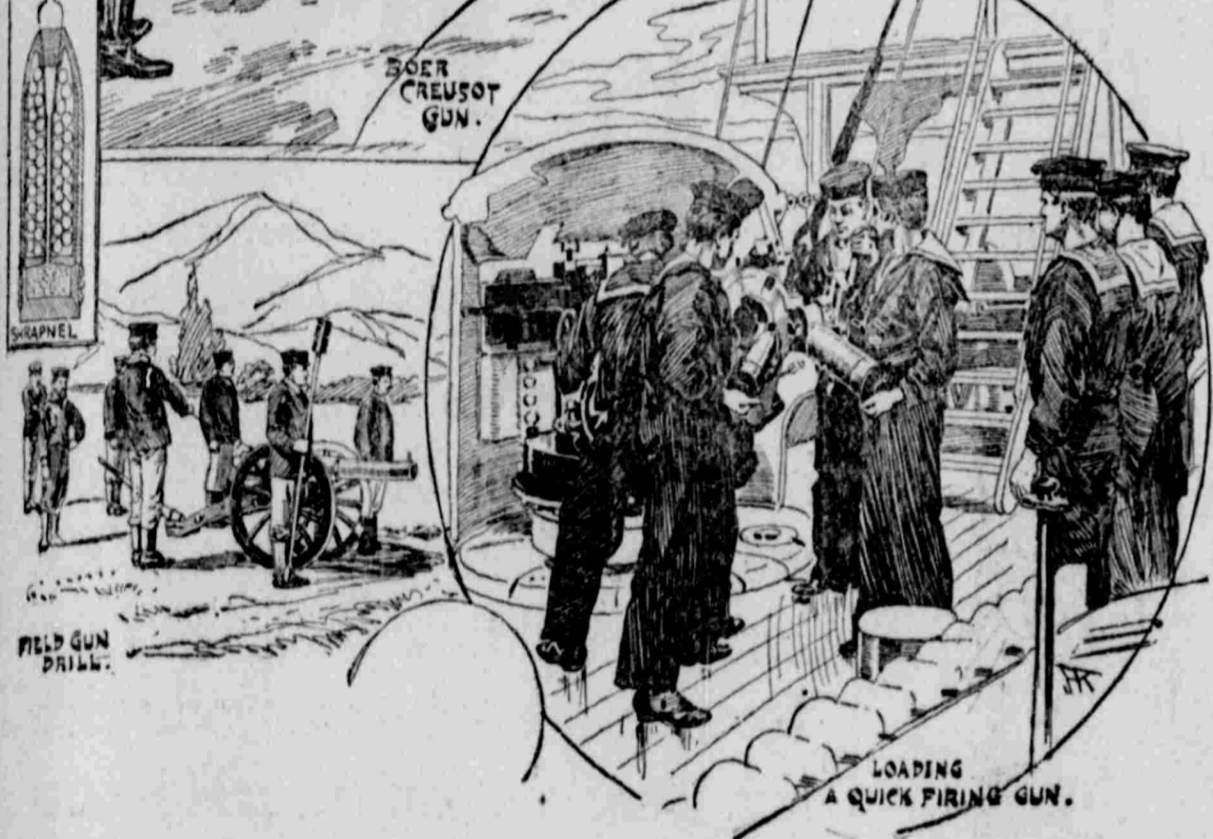
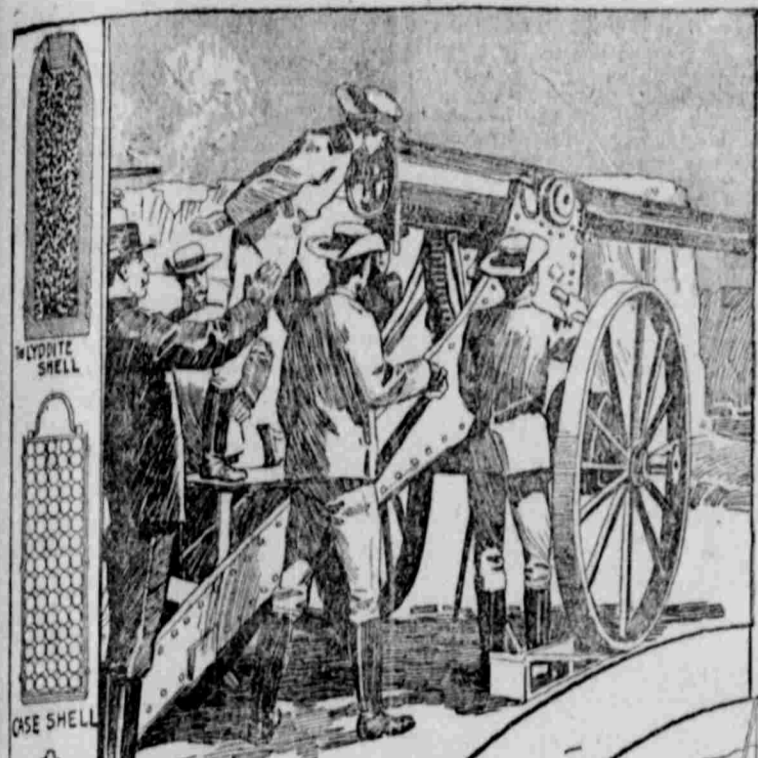


Artillery Shells and Their Use.

WHILE a great deal is written about artillery in these war-like times, it is a subject not always fully understood. The artillery now being used by the British in South Africa consists of the 12 pounder horse artillery gun and the 15 pounder field artillery gun. They are practically the same pattern, the lighter gun being shorter in the barrel. Horse artillery invariably co-operates



with cavalry and is able to keep up with the same at its fastest pace, its gunners always being mounted. Field artillery, on the other hand, co-operates with infantry, and must be ready to be pushed into action at a moment's notice.

It is only in field and horse artillery that the guns are known by the weight of their charge, other guns deriving their name from the diameter of their bore—that is, their caliber. In horse and field artillery the caliber is three inches, both for case shot and shrapnel. A shrapnel is a hollow shell filled with some 200 bullets and a small bursting charge sufficient to burst it and disperse the bullets over a conical area. This charge of an ounce and a half is at the base of the shell, with the bullets packed above it and round an inner tube reaching from the tip of the shell to the exploding charge. The bullets are placed in rows, to prevent their rolling and interfering with accuracy of aim. The powder charge projecting the shell is independent and is contained

in a silk bag to facilitate handling and exactly fitting the breech of the gun.

The method of exploding the shrapnel is interesting. At its upper end the projectile has a funnel shaped opening, whence a tube extends down to the bursting charge. In this opening is screwed the fuse which causes the explosion in the shell itself. This is a gem of mechanical skill and works with

where it will explode, notwithstanding the tremendous rate at which it whistles through the air.

Case shot is less often used than shrapnel. It is looked upon as the last resort of a battery threatened by infantry or cavalry at close quarters and is not effective beyond a range of 500 yards. It is made up of 300 shot packed in a case of sheet tin, which breaks into pieces when the gun is first fired, scattering the bullets in all directions, and not carrying its bullets in a compact mass to the target like the shrapnel and then exploding.

A third kind of projectile, used in heavy guns such as the 5 inch howitzer, big naval guns and fortress ordnance, is the common shell, similar to the shrapnel in appearance, but containing no bullets. It holds, however, a large bursting charge and is of much heavier metal. It always explodes on impact, being ignited by a percussion cap at the tip. These shells are used for the destruction of masonry, earthworks and all solid targets. They will explode after imbedding themselves in masonry, and so not only pulverize the point where they strike, but also tear up the surrounding stone layers. Their destructive power has been greatly increased by using lyddite for the bursting charge, this explosive being named after the town of Lydd in England, where the British government factories are.

The machine gun forms an inde-

A GUEST AT THE SEAT OF WAR.

Captain Baron von Luttwitz, who is the military attache in London for the government of the kaiser, is the gallant officer who is at present the guest of General Buller and his staff in South Africa. Baron von Luttwitz accepted a



very generous invitation to go to the front to study the British plan of campaign and to report on the same to his home government, being one of the many foreign tacticians who are receiving free object lessons in warfare in the land of the Boer.

BRITISH ROYAL WARRIORS.

Two remarkable cases of brothers fighting for England must be recorded. The three sons of the Duke of Teck are all at the war. Prince Adolphus goes out with the Household cavalry contingent, Prince Francis is in the Royal dragoons, and Prince Alexis is in the Inniskilling dragoons. This gives the Duchess of York great anxiety, as she is much attached to all her brothers. The Duke of Atholl has also seen all his sons in active service, for Lord Tullichardine, who married Miss Kitty Ramsey, is going with the cavalry corps, and both Lord George and Lord James Stewart Murray are in the Black Watch, now in South Africa.



Hushed and calm is the Christmas dawn;

The world gleams white, and the sky hangs gray;

God's guardian stars are all withdrawn

As the Bells of Christmas greet the day.

Like the angel voices of olden times,

Like the heavenly choirs of long ago,

The low sweet strains of the new-world chimes

Float down thro' the morning over the snow.

The old, old Tale thro' the dawn they tell

In the song that their brazen throats out-fling;

They waken and mingle and murmur and swell,

They carol and louden and thunder and ring!

"Peace, Peace on earth, unto man good-will!"

To the world they tell of the tidings sweet,

Loud clanging and swinging o'er hollow and hill,

Thro' woodland and village and city and street.

Then hushed again is the Christmas morn,

The clangor is done, the sound hangs furled;

As it was in Judea when He was born

The music of love speeds round the world.

ROGER P. BARNUM.



THE LAST OF THE CANNIBALS.



Here are a pair of aboriginal Kankas who enjoy nothing better than a meal of human flesh. The Kankas, who are a New Caledonian race, are a hardy people, of a dark chocolate skin, with flat heads and receding foreheads. The men are never seen without arms, and their weapons usually take the form of murderous looking bludgeons. Little can be said of the Kanak's costume, since it consists merely of a diminutive piece of coarse cloth which, after encircling the loins twice, is passed between the legs. The aborigines along the coast have to a certain extent adopted a more civilized garb, and have even foreworn, under the influence of the white missionary, the consumption of human flesh. But the tribes farther inland still keep up their barbarous practices, and, being of a hospitable turn of mind, always welcome visitors, providing they are whites, with a meal of cooked Kanak flesh.

THE DELIVERER OF LADYSMITH.

One of the real heroes of the Anglo-Boer war now going on is Captain Percy Scott of the British battleship Powerful, for it was the clever brain of Captain Scott that invented the land carriages for the conveyance of heavy naval guns, and by so doing enabled a number of the big lyddite thunderers of the Powerful to be rushed up from Durban to the relief of Ladysmith. This adoption of naval guns for field service has been a most important item in the South African campaign, and Captain Scott, who already has a splendid reputation as a fighter, finds himself now spoken of as the most efficient inventive engineer in the service.

Russia is a country extremely rich in horses, the number of which has been estimated at 20,000,000, of which at least 1,000,000 are saddle horses fit for the purposes of war.

A UITLANDER HOME IN JOHANNESBURG.



Here is one of the more attractive of the representative private houses of Johannesburg which during the war has been forsaken by its British residents and is now being used as a hospital for wounded Boers. The hospital of Johannesburg has long been filled to overcrowding with burghers who have fallen pierced by English bullets, and now many of the larger houses of the uitlanders have been appropriated by the Boer government for hospital purposes. It is a noticeable fact, by the way, that most of the handsome and substantial dwellings in this city belong or once belonged to not Boers, but uitlanders, the people who paid practically all the taxes and yet did none of the governing.

THE HERO OF ELANDSLAAGTE.

It was Sergeant Baldry, whose portrait is herewith reproduced, who so bravely brought a squadron of the Eighteenth hussars back from Elands-laagte to Ladysmith after Joubert and his men had cut off his line of retreat. This gallant sergeant found himself and 30 of his men, after having been dis-



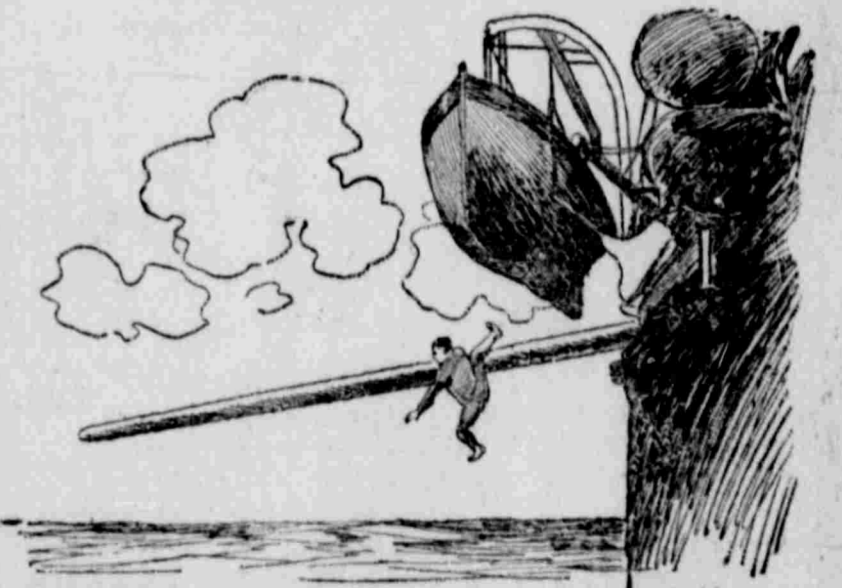
patched to intercept the flying enemy during the battle of Elands-laagte, intercepted by a large number of Boers. Baldry and his little band cut their way through the Boer forces and succeeded in reaching Ladysmith once more, though only after several casualties.

A LEARNED DISCIPLE OF BUDDHA.



The Khambo Lama Agouan Dordji, who is shortly to visit America, is not a scholarly looking divine. He is, however, the greatest intellectual light in modern Tibetan Buddhism and is at present visiting in London for the purpose of investigating Buddhist literature in the different English museums and universities. Besides being a doctor of divinity in his own religious order the Khambo Lama is also the one undisputed ecclesiastical authority of eastern Asia, and has lectured in St. Petersburg and Paris on the mysteries and principles of the religion of Buddha. When in Paris, he held a Buddhist religious service in the Musee Guimet, and there was danger at one time of Buddhism becoming a fad among the fickle hearted Parisians. The Khambo Lama Agouan Dordji soon became a society idol, and were it not for his ascetic turn of mind might have been lured far from the straight and narrow path of the orthodox Buddhist by the attentions he received in the "gay capital."

OUR SAILOR BOYS AT PLAY.



In piping times of peace the jackies of the navy often find it hard work to amuse themselves during their idle hours. This is especially the case when a man-of-war happens to be in quarantine, which, of course, usually happens in southern waters. When such is the case, the sailor boys do their best to amuse themselves with swimming races, water polo matches and amateur theatrical performances, but the most popular amusement of all is going out on the greased pole. This pole is let down from one of the upper decks of the ship, and then Jacky after Jacky attempts to climb out to the end of it. It is no easy task, and many an agile young seaman goes flopping down into the water before the feat is once accomplished and the prize awarded.

NATAL'S MOUNTED POLICE.



A body of men who have quietly borne the brunt of much of the hard fighting in the South African war are the Natal Mounted Police, a troop of the mounted police being shown in the accompanying illustration. These troopers are a sort of gentleman "rough riders," mostly adventurous young Englishmen of good family who from time to time have drifted down to the Cape and later enlisted themselves under the government with a view to seeing a little bit of the life and adventure. During the last few weeks they have been getting very hard and, owing to their knowledge of the country and its ways, they have been of especial service to the English regulars who have been fighting with

ABOUT WELL KNOWN PEOPLE.

The Mormon church purposes to erect a large temple in Louisville, Ky. It will be used not only as a place of worship, but also as the central point from which missionaries will be sent to various cities and towns in Kentucky and contiguous states.

Baron's khedive announces that \$500,-

000 a year doesn't meet his household expenses; therefore some wives will be dropped.

The Massachusetts state board of health has expended about \$100,000 during the past 16 years, during which time it has collected and examined about 110,000 specimens of samples of

food and drugs, has conducted about 1,400 prosecutions against offenders and secured the infliction of fines amounting to \$35,000.

Yellowstone park is said to be increasing in popularity with tourists, though the number who visit it is small in comparison with what it should be in view of the attractions. During the past summer there were 5,942 visitors

in the park who lived in camps and 3,217 who staid at the hotels. The expense of the tour, however, is yet too large for the great majority of the people.

"Abdul the Damned" employs a medical commission whose duty consists of declaring malcontents insane. Death follows in an asylum.

Abyssinia's king claims descent from

King Solomon. He is 6 feet tall and badly pitted by smallpox.

A resident of Atlanta has presented to Admiral Dewey an autograph letter written by Admiral Farragut in which occurs the phrase, "that young Dewey is a very promising chap."

The skull and crossbones which make so familiar a sign on apothecaries' labels for poison have a rival

now in Germany in the form of a conventional representation of a zigzag bolt of lightning, which is painted on transformer chambers, poles and other places where there is danger from a high voltage electric current.

It is not generally known that Secretary of the Navy Long is an advocate of total abstinence. He has, however, been so for years and is now president

of the Massachusetts Total Abstinence society.

The remains of all the czars of Russia since Peter the Great lie in a memorial chapel built on one of the islands of the Neva.

Germany's empress gets 500 new dresses every year. The Count of Fontalba journeyed from Lisbon to Vienna in a carriage,