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No. 15.

CHATHAM, NEW BRUNSWICK, FEBRUARY 22, 1900.

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Letter Heads, Note Heads, Bill Heads, Envelopes, Tags, Hand Bills.

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RULES OF ETIQUETTE.

ing office at this season should be govthe gun inspects the fuse to see that let had entered the top of his head.
No shot had been heard, and the pererned by the following rules: Advance it has been correctly set. The "devil" will attend to the alarm. You will give him your name, post- shell.

quired to explode on impact the low er pin is taken out. in some measure, explains away the air balances the attraction of gravity. withdraw both pins, so that if the the limit of the time-fuse expires, it

The pin or pins having been withdrawn and the time ring moved into the desired position, the nut on the top would be screwed down tightly and the shell given to another man who would place it in the breech of cleaning boots in the open air, he was the gun. Immediately before doing seen to drop dead without a cry. On Parties wishing to enter the print- so, however, the officer in charge of

Timed to Explode Over

CARE OF THE BABY

The Difficulties of Timing the Fuse Showing How the English Have so Far Excelled the Boers in Accuracy of Firing and Bursting.

plosion will take place.

shell will become ignited, and the ex-

The details on the right-hand side

of the lower part of the fuse act when

an inch out in the setting probably

means the waste of so much ammuni-

he internal mechapism of a time face and percusates

he parts precisely as wanted.

sighting of the gun.

In addition to the difficulties of

what is of great importance see that

the gun-carriage is on a level. If on

have to be made in the sighting.

But the same distance seems dif-

ferent under different circumstances.

When the sun is at your back things

seem nearer than they are; when it

ured by the military authorities.

Window-panes at 500 yards.

Men's features at 300 yards.

Soldiers' head-dress at 600 yards.

WHEN BULLETS FALL.

the terrific force with which they come

bullet entered the shoulder of a cav-

examining him, they found that a bul-

THE COW AND THE GOAT.

Well, it turned to butt'er.

I have the best cow in these parts,

boulets."

Chimneys at 3,500 to 4,000 yards, or

Single-posts at 1,170 yards.

Roof-tiles ct 250 yards.

distinguish:

2 to 21-2 miles.

known to need description

Scarcely one person out of every fine grain powder, and in a series of hundred or more knows the exact manner in which a shell is made to explode at a given distance in its aeriel

In reading the war news in your daily paper recently, you have doubtless seen it stated that the British gunners worked their guns with the most deadly effect, "timing their fuses with great precision," whilst, on the other hand, the Boers have in many instances-more particularly in the bombarding of Ladysmith- been doing little better than wasting valuable ammunition, their shells failing to explode in innumerable instances. The case of the Boers is brought and partly by rank carelessness in fir- the line grain powder, which in turn catches the "high explosive pow-

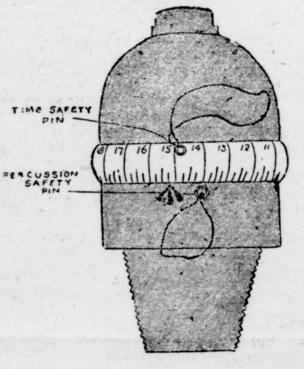
The accompanying diagram will show shell, and scatters the contents. at a glance what is known as the time fuse, or percussion cap of a shell. It is a wonderful piece of mechanism, fuse of a shell is a lelicate mass o. cate, it is surprising how reliable it is when handled by trained men. The drawing we give is on the most simple scale possible, a few technical details having been left out as being unnecessary to those who want only an elementary knowledge.

We will presume that a battery of artillery has got into position and the officer in charge has escertained by the range-finder that the enemy ois 3,000 yards away. Orders are given, generally, at the outset to fire "common shell," which is filled with powder. The object would be to fire at a 3,000 yard range, and then, by the volume of smoke which would arise from the explosion of the shell at the range, the officer in command would be able to tell if his calculations were correct and adjust them longer or shorter accordingly. Having found the range, it is prob-

able that "shrapnel shell" would be ordered. This is a terribly destruction, and when nuts have to be screwed tive shot, the case being filled with bullets with a small charge of powder to "open" the shell, and send the fuse, those in charge of guns have contents on their death errand. It might be incidentally mentioned

that "case snot" is used mostly in bombarding a town, or against a big a rough ground one wheel is slightly above or below level, a precise allowobstacle, such as a fort. It is filled with small balls of iron, well arranged, and the explosive force is greater. Shrapnel would be used against an army in comparatively open ground. Orders having been given, say, for or carbine. The effects, of rotation on table "Shrapnel-3,000 yards," the man in charge of the ammunition would take a shell in one hand, and with a key extract a piece of brass which is screwed into the head. Having removed this, he would take a time-fuse, of which an outline drawing is given, and would screw this tightly into the head of the shell. The fuse is about three inches high, and the exterior is of brass. He would then proceed to unscrew the top nut or cap, thereby loosening the numbered ring, which is moved round to a certain point. The numbers on the ring indi- their judgment of the distance. cate so many seconds, and a rough scale is that a shot travels 200 yards a second, varying, of course, with different guns.

So that in 3,000 yards range the number 15 would be brought precisely over the lower broad arrow shown on the fuse. The two pins are of vital importance. If it is required that the shell shall explode in the air the upper pin is withdrawn; but if it is re- farther than they really are.



It is believed that the Boers have the reason being that when the mofire. So as to make certain of the shell should meet an obstacle before would immediately explode.

office address and the number of years you are owing for the paper. He will side of the fuse, shown in the secadmit you. You will advance to the ond drawing, is the part that acts centre of the room and address the when the shell is required to explode editor with following countersign: whilst in flight. The safety-pin hav-extend the right hand about two feet ing been withdrawn, the pellet with twice a day and the cream from each from the body, with the thumb and stee! needle attached is jerked back- pail makes two pounds of butter. fingers extended, the thumb and in- ward when the shell is discharged An you think that's pretty good, dex finger clasping a \$10 bill, which from the gun. The needle strikes a do you? Guess you never heard of ON WOOD, LINEN, COTTON, ON drops into the extended hand of the cap, which explodes and ignites a slow Mary's goat? editor, at the same time saying: burning powder. The latter is ar"Were you looking for me?" The ranged almost round the cap, and editor will grasp your hand and the burns until the time it is set, at, say, burning powder. The latter is ar-

he Home

Are Infantile Maladies Compulsory

law of nature that compels a baby to have thrush, or take convulsions the gamut of complaints from measles for the accommodation of pitchforks, to scarlet fever. I say emphatically that disease can be avoided, but it rests wholly and solely with the minute flashes, which all act in less spring as nuisances or necessary evils. than a second, the powder within the

good-bye health, and welcome to

sensible, womanly woman, and loves

doctors and disease; but if she is

and respects her babies, the medico WHAT HE SAW an explosion is desired on impact. The safety-pin having been with- need be an unknown quantity, and illdrawn the pellet is jerked back on the ness will be conspicuous by its ab- An Expressman's Story About Carrying a discharge of the shell from the gun. sence. Teething, with ordinary care, It falls into the receses-shown with the dotted line-and the metal ball, need not be a time of anguish and beside the needle, having nothing to tribulation of spirit; there is not the hold it in place, rolls out, and falls on slightest need for your child to suftop of the pellet. The steel needle fer from convulsions, or to sleep badly. is free to act, but it is kept in place by How to Avoid Them-The way to I was troubled with insomnia for the rush of the shell forward. Immediately on impact, however, the avoid illness in your home is by pracsteel needle jumps forward, as a ne- tising Care, Caution, and Cleanliness. cessary consequence to a sudden stoppage, strikes a "detonating These are the important necessary cap," and the flash from this passes factors for successful life. Recolabout partly by defective ammunition | down beside the needle and ignites lect there are two words that must

shell, and scatters the contents.

There are many other complications for they are impossible words in a story of some unfortunate who had about a fuse, such as gas escapes, very mell-regulated household. Of course gone to the mountains in a vain fine and important wires. In fact, the mother must not lie in bed of a search for health. It so happened complications, and the reader an well quick, active and alert. imagine the difficulties under which artillerymen work when such intribute work as setting a fuse has to be done under heavy fire. The decimal part of

every day; she must see that his instant. bowels are regular; and, above all, be scrupulously particular in seeing that said. The suggestion was a good one all the articles used for the preparafant mortality which is such a disgrace to us as a nation. I have! known in several cases, the most pain- with a door at the end. About 10 ful and dire results ensuing from a o'clock snow began falling and I tell careless nurse feeding babies from you it came down thick, It was midand thoughtlessness is set them.

cleanliness. It is impossible for a whitest ghost any man ever saw. I down tight, it is no mean task to keep baby to be healthy and sweet tem- stood in the centre of the car, irreso- Laths pered unless he is thoroughly clean. lute. I looked at my Winchester, then He should be bathed every day of his I realized it would be of no use Paling life from head to foot, and allowed to against a spook. to make allowances for the wind, from splash and kick in the water to his whichever quarter it is blowing and heart's content.

SQUASH GRIDDLE CAKES.

It is hardly worth while to cook ance has to be made for this in the squash purposely for griddle cakes, but often a portion will be left over, Then again, it is well known, that not enough for another dinner, but it on leaving the muzzle of a gun, the shell is set in rotation. just as a bul- may be utilized in many ways, and let is when discharged from a rifle reappear at the breakfast or luncheon I'm the last man in the world not to

a shell are large compared with those For one cup of dry, mealy squash on a small bullet, and so allowances add one cup of scalded milk and mix thoroughly. Stir in while still hot It will be understood that the above has nothing to do with the discharge one rounded tablespoonful of butter, of a shell from a gun. This is alto- one rounded tablespoonful of sugar gether another thing, but is too well and one-half teaspoon of salt. While it cools mix two level teaspoonfuls of baking powder with one cup of flour, and beat one egg yolk and white separately. Add the yolk to the squash DIFFICULTIES OF ARTILLERYMEN. mixture, stir in the flour and beat Although many wonderful rangewell, then add the white. As the finders have recently been invented, squash will vary, it may be necessary ploding, means death to any living to add more milk or more flour to they cannot always be trusted, and make the usual griddle cake batter. the gunners have often to trust to Drop by spoonfuls on a well-greased

hot griddle and turn when brown. BEEFSTEAK AND ONIONS.

Broil the steak, which should for is in your eyes they seem farther. this dish be at least one and one-half Looking over level ground, water, or inches thick; butter and season it and snow, they seem much nearer than place it in a hot covered dish. Over lyddite is held secret, and it is therewhen looking over broken ground. In misty weather and in the dusk of the steak you will place the onions, evening they seem both larger and prepared as follows: Slice very thin garding it. Competent authorities, a half dozen onions and fry slowly in however, have no doubt that it is only Here are some of the distances at which certain objects can be seen with good eyesight, as meas- and simmer for half an hour longer.

Here are some of the distances at pork fat half an hour; then add half a modification of melinite, the authorized explosive used in the French and seen with good eyesight, as meas-While cooling season with salt and On an ordinary clear day you can pepper. Allow the steak covered with that lyddite stands between that exthe onions to stand in the dish tightly plosive and thorite, a newly invented

DON'T WASTE COLD FISH.

Movement of legs and arms at 1.000. A good artilleryman ought to be all bones from the fish, and put it in discovered in 1788 by the German chemable to judge accurately how far any a pan, beat it up with a fork, and mix ist Hausman, who obtained it by actof these things are up to 4,000 yards. with it a small quantity of grated chopped onion and parsley, pepper, salt and a couple of weil-beaten eggs. Put Falling bullets kill many men, even some lard into a frying-pan, and, when they are lying sheltered behind when quite boiling, drop the mixture trenches. If a bullet is fired in the into it in small cakes; fry them a light brown on both sides. They can air it falls with as much force as it eaten hot or cold. Tinned salmon, goes up. But, curiously, there is a treated in the same way, make delicicertain limit of height, beyond which ous fritters; of course, the liquor in a bullet gains no more falling force: the tin must be drained off before using the salmon. As half the contents of the tin will make a good dish lized by pouring spiced vinegar over it, when it will keep good for some men were killed by falling builets. And

a quarter of a pint of milk-let it down is shown by a case in which the boil and thicken. Then stir in the solved in ether and alcohol. M. Turflouring-lemon juice or vinegar, salt, pin has produced many patent modi- ial prices. alryman, passed down through his cayenne, a little anchovy sauce. Last fications of this mixture, of which lyd-of all add about a breakfast-cupful of dite is one. The alleged fabulous probody, and penetrated several inches incold cooked fish, cut small. When perties of the English explosive are A curious instance occurred not long cold, shape into balls, egg and bread- probably only imaginary. When melago in India. While a native was crumb them, and fry in lard.

BAKED MUSHROOMS.

ternal workings—"the brains of the bullets" balles," they call cannon-balls Sprinkle with pepper and salt and lay explosion carbonic acid gas, not per se half an hour, basting often with but- and inclosed space this gas will probter and water so they will not dry ably suffocate animals, but it is diffiup. Serve in the dish in which they cult to see how it can have any deathare baked with maitre d'hotel sauce, dealing properties in the open veldt.

FULNESS. Every housewife knows that the

broom is damaged as much by sitting in the corner and behind the door on the brush end as by use. And yet a eggs?

saw a device the other day that was quite ingenious. A couple of large spools were fastened to the wall just far enough apart so that beir flange would not allow the nandle of the broom to drop out from between them, yet would readily allow it to pass between them. They were placed just high enough from Ills ?-No, certainly not. There is no the floor to allow the bottom to hang,

inverted, of course, upon them and not ouch the floor. The broom is quickand easily inserted and removed. whilst teething, and after that to run The idea can be carried to the stable and to the toolhouse for shovels. spades, axes, sledges, etc. No tool will be lost or in the way if given this kind of a rest. The spools are mother. If she looks upon her off- fixed to the wall by means of large spikes whose heads will hold the spools in place, yet not so large but the

Corp e on the Front Platform. "I do not believe in ghosts, nor am I particularly nervous," remarked the express messenger, "but I once was so positive that I saw a spectre that

many nights and I thought I never would be able to quiet my nerves "It was back in the 80s when I was running. We made a small station the "fine grain powder," which in be unknown to us, and they are one evening about dusk and found on the mother must not lie in bed of a search for health. It so happened

morning; she must be up and about, that my car was full and plan as I Three Things That a Mother Must might I could find no place for the See to Herself .- No matter how good box. The train conductor came up and careful a nurse you may be bless- to find out what was the cause of the ed with, there are three things that delay. I told him of my predicament. it behooves every mother to see to herself. She must bathe her baby He was equal to the emergency in an

tion of his food are spotlessly clean. and in another moment our dead pass. Dirty bottles and unclean saucepans enger was aboard and we were rolling "It so happened that I had a car

dirty bottles. It is carelessness in night when I thought of the corpse. "thrush." Faulty as the nurse may It would never do to lose it and the be, how much more to blame is the jolt of the train might jar it off the mother; for it ought to be her proud- platform. The night was clear. I est privilege to see herself after these opened the door. As it swung on its matters. A careful mistress makes hinges I looked out. Then I slammed careful servants, and vice versa. It the door with a bang and jumped back is impossible to expect strangers to in the car. I was perspiring from be particular if an example of neglect every pore and trembling like a leaf. "What had I seen? Why, sitting The Importance of Cleanliness.-The bolt upright on the coffin, with his greatest factor to health is absolute hands clasping his knees, was the

> "Suddenly the door opened and there stood my ghost. It was a tramp covered with snow from head to foot. He stood there blinking at the light for

a moment and then said: "Say, Willie, you've ketched me, anyhow, can't you let me get warm afore you turn me off?" Did I let him ride? Well, I guess. If I'd been going to New York he could have gone with me Dimensioned Lumber show appreciation and gratitude."

LYDDITE AND MELINITE.

plosives to Which it is Related Have the Poisonous Effects Which Some

It is very frequently stated that the lyddite shell contains a certain compressed poisonous gas, which, when excreature within a radius of 100 yards (some even say 400). This is an additional life-devouring agent to the ordinary destructive powers of the shell. This statement is no doubt an exaggeration, as the use of such shells civilized warfare. The composition of

fore-impossible to give any details re-German armies. This much is known covered for five miutes before serving. compound. They are all compounds of picric acid or trinitro-phenol, a pale, yellow, crystalline powder, with 1. Fish Fritters.-The remains of an intensely bitter taste, and possessany boiled fish can be made into tasty ing marked toxic qualities. Picric cakes or fritters, as follows: Remove acid is an old compound, having been ing on indigo with dilute nitric acid. bread-crumbs, a little very finely- At present it is largely manufactured chopped onion and parsley, pepper, salt by treating carbolic acid with strong nitric acid. Since the early fifties substance in the hope of producing an deal explosive. Boilinette's famous powder, compounded of the ammonium

salt and potassic chromate, was made in 1869, but found to be too sensitive. Fontain's mixture, in 1869, caused a lamentable explosion, which led to its being discarded as a military explosive Designolle was more successful, probeen careless as to these pins, which, tion is very rapid the resistance of the of fritters, the other half can be utily received, and is still in use in; the French army, though largely supplanted by melinite. This last famous 2. Co'd Fish Cu lets .- Melt one ounce explosive was invented by M. Eugene of butter, add one ounce of flour and Turpin, and consists of a mixture of fused picric acid and nitrocellulose disinite was first put forward, equally astonishing powers were claimed for it by General Boulanger, but these have not been justified. Luddite has not Select fresh ones-the size should been effectually tried in warfare, and Job Printing erned by the following rules: Advance to the inner door and give three distinct raps or kick the door down. Sible, undertake to make clear the inauthorities declare it to be little difa bit of butter on each. Bake about a poisonous gas, is evolved. In a small

> Owing to the terrific explosive force TO P RESERVE A BROOM'S USE- of the compound the shells will have a wide range, certainly a radius of 100

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