THE LIQUID. FIRE BOMBS

WEAPON OF "FRIGHTFULNESS" IN MODERN WARPARE

No Instrument of Present day More Horrible Than the Destructive Incendiary Bomb.

The wonders of chemistry have lent descriptive inspiration to the pen of many a writer. But mankind to get. notion of the horrors of chemistry has had to wait for the present war. The conflict now in progress is nainly, as one might say, a warfare of the chemists. Without their diabolical

products, ranging all the way from nigh explosives to poison gases, it would have few of the characteristics of ultra-frightfulness that render it unique in the history of international

But of all the instruments of destruction used in this war, there is one more horrifying than the so-callincendiary bomb," which sets instant fire to whatever it touches and errific that three or four such gravty-projectiles dropped the other day om an aeroplane (undoubtedly Gernan) burned up the whole of a peace. Dutch village in a few minutes,

Now, what is the fearsome stuff ith which such bombs are loaded? A ew chemical compound? Not at all. hat they contain is simply a mixture two of the most harmless things in ne world—oxide of iron (which is imply iron rust) and powdered alu-

An Infernal Compound

When these two innocent substances e mixed together the result is a comand truly infernal in its potentialis for mischief. It is not an exploe, but if set on fire, it burns with intensity that is positively appalng. Nothing will put it out; no antity of water has any effect upon raging flames it engenders. This is the material used for load g incendiary bombs. It is ignited in ch projectiles by a mercury-folmincap that sets off a fuse containing vdered magnesium—the stuff phoraphers employ for flashlights. These bombs are thin shells of steel iron-mere containers for the mixe before described. They are so ited when they strike. Whereupon shell is melted by the heat generwithin it and a flood of fiercely ning metal is scattered in all direc-

All of this seems rather extraordin-, and it is worth explaining. xygen has an affinity for iron, lily combining with the latter ch is the reason why iron is liable, rust. This pust is a chemical comnd of iron and oxygen; in other ds. oxide of iron.

ut oxygen has a much greater aftwo metals are powdered and mixbines with the aluminum.

together and heat is applied the gen flies out of the iron rust and "Fiery Dragon" of Middle Ages. e process is started in the l he burning magnesium. And ther oxygen passes out of the iron and

the aluminum so rapidly, that an mously high temperature is depped. It runs up to 3,500 or 4,000 rees Fahrenheit-which means of rse, a tremendous combastion. The kture of aluminum and iron burns so much tinder-though such a of putting it is absurdly feeble. he present war has been conspicuy marked by reversions to ancient hods of fighting. In this line the endiary bomb offers an excellent ilration. It is in effect merely an ptation of an idea utilized by the acens—we should call them Turks adays-in their warfare with the saders of the Middle Ages.

ie instrument of war most dready the Crusaders, as they found it e hands of the Turks, w. the iniary bomb -- a projectile that flewigh the air "like a flery dragon". hey described it and set fire to' ever it touched. Sometimes it was ided with iron barbs, by which it

s was one of the ways in which aracens employed the celebrated k fire"-an inflammable com-I that is understood to have been xture of petroleum, saltpeter and The chief horror of it, from rusaders' point of view, was that s unquenchable. Mere water had feet upon it. Hence they were that it must be of diabolical ori-

e to buildings.

s easily seen that the up-to-date liary bomb is a great improve on its original of the Middle The modern contrivance is ughly scientific, and it does its nctive business with certainty and

paint that is said to be both fire vater proof is made from the oil

bean grown in Manchuria. e of the great dykes of Holland is

iles long, starting far up in the ry, near the Yssel River, and using across the Hook of Holor the sea. It was built in secand for seven centuries has held the waters from the low-lying .It is forty feet broad at 35 feet broad at the top, and varies from 25 to 35 feet

The Markdale STANDARD

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ich for each insertion: Months Contract 12e. 12e. Weeks Contract 15c. 16c. 18c. 20c. 20c. Preferred position, 10 por cent. ad-

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G R WILLER, M.B., M.D., C.M. Recklyn, Ont. Cate of Line Medical Faculty of annual Just because the worthy of Lite House Surgician in the General the red ribbon if it is the only one in the Marine Medical Later of the d Marine Hespital, Owen Sound Price \$13rs and 51r3, Rocklyn.

AUCTIONEER.

MARKDALE STANDARD

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MARKDALE, ONT., THURSDAY, JUNE 21, 1917.

Established in 1875

FRATERNAL

A. F. & A. M. Hiram Lodge, No. 480, G. R. C. Markdale, meets in Masonic Hall, McFarland Block, on Tuesday evening on or before the full moon every month. Visiting brothren cordially invited. Jno. Caesar, W.M.; T. H. Reburn, Secretary.

C. O. C. F., No. 399. Court Markdale Canadian Chosen Friends, No. 399, meets fourth Tuesday in the month in Ennis' Hall at 8 o'clock. A. Jackson, Chief Councillor: R. W. Ennis, Recorder.

SAUGEEN LODGE, No. 397. Friday at 7.30 p.m.

in their hall, Main street. Visiting brethren always welcome. W. Hamilton, N.G.; R.-W. Ennis, Sec. W. J COURT GREY, 1451, C.O.F. Meets every last Wednesday of the month in Mathews' Hall at. 8 'p.m.

Visiting brethren always welcome. P. J. Thompson, C.R.; Alex. McEachnie, Fin. Sec. MARKDALE, L. O. L., No. 1045. Meets in Sarjeant's block on Thursday evening on or before full moon in each month. Visiting brethren made welcome. J. J. Richardson, W.M.,

DR. J. S. SHEPHERDSON.

Veterinary Surgeon. Graduate of the Ontario Veterinary College, Faculty of Veterinary Science, University of Toronto (Dominion Civil Service Veterinarian). Office in Artley block. Phone 86.

PANETALE PROMPTLY SECURED

MARION & MARION. 364 University Si, Cor St Catherine 21, Montreel

DR. DeVAN'S FRENCH PILLS A relia mlating Pill for Women. \$5 a box or three for 10.5 Sold at all Drug Stores, or mailed to any didress on receipt of frice. The Sconzell Drug S. St. Catharings Outselo. PHOSPHONOL FOR MEN. Restores

itality; for Nervo and Brain; increases "groy natter"; a Tonic—willbuild you up. \$3 a-box, of wo for \$5, at drug stores, or by mail on receip f price. "The Scopell Daug CO. \$1. Catharing boid at Stephens' Drug Store.



Breed the best to the best. Raise the calves; quit eating veal. Type is not the real test of a cow's

value. The scales and tester are better indications. Keep all calf pails, and the utensils with which milk comes in con-Parties calling after hours with hot water and then expose them

to the sun during the day. To make a real success at the fall shows, begin now to care for the pro-

its class. One farmer says that with silage and clover and alfalfa hay he had been able to bring a large herd of

'arm' (rop Queries

Conducted by Professor Henry G. Bell. The object of this department is to place at the service of our farm readers the advice of an acknowledged authority on all subjects pertaining to soils and

Address all questions to Professor Henry G. Beil, in care of The Wilson Publishing Company, Limited, Toronto, and answers will appear in this column in the order in which they are received. As space is limited it is advisable where immediate reply is necessary that a stamped and addressed envelope be enclosed with the question, when the answer will be mailed direct.

Question-C. K .: I have a field of analyzing 2 to 3% ammonia, 8 to 10% bout forty acres of heavy June grass phosphoric acid and 1% notash. This The land is mucky, with clay will start your corn crop off strong ub-soil. I would like to know if buck- and vigorous, just the same as whole wheat would be of any use to subdue milk gives a vigorous start to your the June grass on this land? I have a calves.

good crop of beets on this land seven

good crop of beets on this land seven

goars ago. After the beets I had field which has a heavy sod about four oats, but they grew rather too rank and lodged, thereby killing out part of the seeding which caused the June count of wire worms I did not plant grass to take a start and it has been to oats or corn this Spring. I have it left in that way ever since, so that plowed again and intend planting to it is now almost a solid June grass beans, but some of my neighbors said sod. Now if you believe that buckwheat would grow on this land then I they? If so, is there anything I can would like to know what kind of buckdo to prevent it? I do not find many wheat to get and how much to sow Would the dry weather effect

Answer:-The soil that you describe with a heavy clay bottom hould produce a rank growth of buckuckwheat on this soil, it should make June grass, if the seed-bed is well preosphorus, the kind of plantfood that ever, thorough tillage of the soil in

gives strength to the straw of the rain. This will give strength to the buckwheat kernels. Silver Hull buck- of fertilizer per acre when seeding equires about five pecks of seed per of New Jersey, who made a careful acre. Another good crop to use under study of the life history of the wire

seed per acre? Would it pay to use tribut

them any? The soil is a clay loam Answer:-The wire worms wheat. The crop, however, is better effected your crops last year found suited to a clay loam. If you seed a suitable home in the sod which was plowed under. You are planning corsufficient growth to overcome the rectly to plant this land to a cultivated ass, if the seed-bed is well pre-in view of the fact that your tion it seems possible to get rid of the grain lodged so badly, I would advise wire worms. It is impossible for me ou to apply at least 200 pounds per to say whether the wire worms will here of acid phosphate, which supplies take the beans or not this year, how-

preparing the seed-bed will do a great deal to drive them out, as will also puckwheat vines and will plump the the application of 200 to 400 pounds heat is considered a good variety and your beans. The late Prof. Smith nditions you describe would be worm, strongly recommends fertilizers This can be sown broadcast in as a means of getting rid of the wire Rape requires about five or worm. The wire worm does not like x pounds of seed per acre if sown fertilizer, and beside fertilizer gives broadcast, and three pounds if sown in added strength to the young growing crop and hence helps it to withstand Question-A.J.W.:-We expect to light insect attacks. For your conect a silo 10x32 feet. Have six and ditions, I would advise a fertilizer half acres, about half of this field is analyzing 1 to 2% ammonia, 8 to 12% and loam and the other half is clay phosphoric acid and 1 to 2% potash.

loam. We plawed down a heavy June This should be worked thoroughly into grass and timothy sod last year and it the soil before you plant the beans, was partly covered with manure. We by scattering it on the surface of the have covered it again this winter and plowed land and harrowing it in want to plant it for silage. How thoroughly or by drilling it in, if you Edito, Ont. Issuer of Marriage Synopsis of Canadian North-West Land should we drill the corn and how much have a grain drill with fertilizer dis-

Sepulations.

The seed in the seed of a family, or any and have a grain drill with fertilizer dissipations.

The seed in the seed of a family, or any and have a grain drill with fertilizer dissipations of the seed of a family, or any seed of a family, or any seed of a family, or any seed of a family seed of a family, or any seed of a family see tion. This can be done by taking out fertilizer analyzing 2 to 3% ammonia, six kernels from each ear, two from 8 to 10% phosphoric acid and 1 to 2% into circular form, slightly smaller pet, mix together whiting and corn than an ordinary saucer. Place the ear and placing the kernels on a oughly into the soil when you are presquare of blotting paper or cloth, numbering the seed-bed at least a week invert the saucer and the solution form, slightly smaller pet, mix together whiting and corn blotting paper in the saucer and the carpet; then tover with gasoline Retserved, June 17.—The square of blotting paper or cloth, numbering the seed-bed at least a week invert the saucer and the solutions paper or cloth numbers as a square of blotting paper or cloth, numbers as a square of blotting paper o

AND RIVER ON BELGIAN FRONT

east. The two sides, along the Lys corroborative of this supposition

THIS IS SPRAYING TIME

Methods of Combating the Enemies of Plant Life in the Garden

as the plants are four or five inches of vitrio to fifty gallons of water. igh and so do the potato bugs. Whether or not potatoes have been grown in the vicinity before, the bugs ire sure to be on hand early in the eason and crops can only be protected by spraying. Then, too, blight must be checked by a spraying every ten days or two weeks. " Cover the plants thoroughly with the spray, the upper and lower surfaces of the foliage. Vitrio is a good preparation to use for this purpose or arsenate of lead and hordeau may be used.

vitrio is used ten pounds should be mixed with fifty gallons of water. For asparagus, beans, other garden egetables, small fruits and rose ushes, one pound of vitrio dissolved n five gallons of water will produce

the desired results. Place the required amount of paste m a pail and add cold water gradually, slowly stirring until sufficient water has been added to produce a smooth milklike liquid. Pour this mixture through a fine wire strainer into the spray tank, which has previously been led three-fourths full of clean water.

Cucumbers and melons should be

As soon as potatoes are well up Young celery plants should be sprayhey should be sprayed. The little ed in the seed bed and at intervals of lea beetle begins operations as soon ten days with a mixture of ten pounds

Arsenate of lead spray should be used for codling moth, caterpillars, flea beetles, browntail moth, gypsy moth, cucumber beetle and curran worm and curculio: . If paste is used three pounds to fifty gallons of water should be used for codling moth and curculio. For canker worms, caterpillars, cranberry insects and leaf eating insects in general use four pounds to fifty gallons of water as soon as the insects appear. Repeat on later broods if needed. Arsenate of lead is deadly to human beings and must be used with care. Fruit and vegetables that have been sprayed must be thoroughly washed before they are used.

For cabbage lice take a lump of saltpeter, the size of an egg; and put in a sprinkler of water. Sprinkle the cabbage once of twice and there will be no more lice on them.

Bordeau mixture is a fungicide and a plant stimulant also, preventing blights and rusts during the growing

During the growing season tomasprayed every ten days. Tomato toes, celery, aspuragus, small fruits, plants should be sprayed as soon as beans, etc., will be benefited by sprayset out and occasionally as required. ing with bordeau mixture.

mp and filth are the two prime as a rule, keeping in good health.

some very hot days and nights.

the young cockerels. To keep in good he. Ith, a hen, in.

get fid of the waste of the body by means of the lungs, and therefore breathes seven times as fast as heated. sweating animals.

For winter green feed there is nothauses of disease among poultry. Idle-ing better than lawn chippings. The ness is a disease breeder, busy fowls, grass should be gathered as soon as cut, and spread out on a shed roof so Filthy drinking vessels breed undesir- both sun and air can strike it. As able germs about as quickly as any soon as it is thoroughly dry it should thing, germs often hidling in the scum be raked up and packed in parfels for that is allowed to accumulate. * the winter. Care must be taken that Keep the houses thoroughly ventilit does not dry too much, or it will ated during the month, for June has lose its strength and bleach out con- air siderably. It should, however, be June is a good month for caponizing nerfectly cured before storing away,

or it may heat and spoil. In feeding, soak the grass in lukeproportion to its size, requires almost warm water for about twelve to eign-seven times the amount of fresh air teen hours, after which either mix the . The horse sweats mash or squeeze out the water and



ears that show very weak or dead it can dissert. It would surely pay you to fertilize your corn. For this purpose to drill the fertilizer in with the beans. I would recommend the use of 200 to Broadcasting has been found to give 300 pounds per acre of a fertilizer best results.

"Reader":—1. When a person repair marks may be removed from Miss B—," after having been introducted to you, respond by saying, "I am the spots with alcohol.

"Ill":—1. No matter how careful prisonal in can dissert the pleasure is mutual"; or, "I am glad to know you." There is no one is when sewing, often an oil spot range grains now being used by she set phrase for such occasions. 2. To gets on a dress while making, if the Germans have been taken from war-

bering the square the same number as to ten days previous to planting. It the ear. Place the cloth in a pan or can be spread with a lime spreader or large plate where you can keep it damp and warm and inside of a week drilling attachment, it is well to apply the kernels should have germinated it that way. The important point is sufficiently to tell you whether the ear to see that the fertilizer is evenly dissisted and thoroughly worked into strong, weak or dead. Take the tributed and thoroughly worked into and to keep it moist, so that the flies possible to do the work in the open, never pedium and strong ears and shell the soil. It is rich available plant-can drink from it. This solution at use only the powder, allowing it to present them out together and discard the food if it is worked into the soil where tracts flies, and usually kill them with- stand for several days, then remove

sene, followed by soan and water. 3. your fabric is silk cover it thickly were Almond med is an excellent substitute with powdered starch and leave for ross, for soap for use on the face. 4. To twenty-four hours. After the starch the snaper class of vessels. The feel-destroy roaches, dip slices of potato in has been brushed off the stain will not ing the veet the German infantry and London, June 17.—The British on to their reinforcement by fresh troops arsenic mixed with sugar. Gather be noticeable. The Belgian frontier now have the should they try to make a stand. Apure every morning and drop into boil. Mrs. D. P.:—1. There is nothing

shows, begin now to care for the pro- and the Ypres-Comines Canal. This, hints at a partial withdrawal in its of- son to lie around if there are children not to allow the cows to graze in spective entries. It is no honor to allow the cover to graze in win on an untrained, poorly fitted with the British line from Hollebeke ficial despatches and the fact that the lin the house. Paris green is anoth- weedy places. It is an argument in Graduate of the Medical Faculty of animal just because competition is makes an irregular triangle pointing or drop shells on the British line is good. "Subscriben":—1 The word "Argen- of dress for a two-year-old boy is dark to sufficiently nourish both body and and the Canal, are each about 5 miles. British forces east of the Messines tine" means "silvered," and is as colored knickerbockers buttoned to a long, and this portion of the British Ridge, according to to day's reports, sociated with the Plata River because whith or light-blue waist with large line has a length of seven miles, con- are engaging the Prussians at both stantly narrowing and encircling the the north and south angles of the tri- tongue. Thus the name given to the cotten with navy-blue collections and content of the cotten with navy-blue collections. been able to bring a large heril or dairy cews through the winter in good to figure. They may be dairy cews through the winter in good to figure. They may be dairy cews through the winter in good to figure. They may be the figure of the Country took to figure. They may be the figure of the Country took to describe the land had eadymade for \$1.50 at the large through which the Plata flows. 2. In the figure of the Country took to describe the land had eadymade for \$1.50 at the large through which the Plata flows. 2. In the figure of the Country took to describe the land had eadymade for \$1.50 at the large through which the Plata flows. 2. In the figure and the country took to describe the land had eadymade for \$1.50 at the large through which the Plata flows. 2. In the figure and the country took to describe the land had eadymade for \$1.50 at the large through which the Plata flows. 2. In the figure and the country took to describe the land had eadymade for \$1.50 at the large through which the Plata flows. 2. In the figure and the country took the analyse of the sum of the property is the planet nearest to the sum of the plata flows. 3. There washing the cown when there is the slightest body of the north and are working cast from the figure. They may be described the Hollebeke on through which the Plata flows. 2. In the figure and the other through which the Plata flows. 3. There washing the cown when there is the slightest body of the north and are working cast from the figure. They may be described the Hollebeke on the country took the analyse of the land that the property is the planet nearest to the land through which the Plata flows. 2. In the figure and the country took the transfer and the country took the land that the property is the planet nearest to the property is the planet nearest to the land through which the Plata flows. 3. There was the planet nearest to the planet nearest to the planet nearest to the planet nearest to the land through which the Planet nearest to the planet nearest to the planet

RHEUMATISM WAS

Drosefful Pains Au 100. 1111/ES".



n, Ont., Nov. 11th., 1915. with Rhamatism and severe Pains in Side und Jack, from strains and heavy

When had given up hope of ever be no we ligain, a friend recommended offist op I felt so much better that an cijoy at the lest of heath, thanks

W. M. LAMPSON.

vlio are reading this - have Ridley or Bladder Trouble, or for trial. This wonderful fruit all do you a world of good. bur swhen everything else fails 300 1 1 1 6 for \$2.50, trial size, 250 of chales or sen postpaid on receipt of pade the Fruit-a-tives Limited

DOWN IN FLANE

murdin Air Raid on South-Bast Coast of England.

June 17 .- Two persons and sixteen injured in an two Zeppelins over the hth-east coast of England strid g morning. One Zeppelin down in flames, all of her

tack by anti-aircraft guns rible lasted fully half an and people issued from their hen the black object driftthe sky from the south north-east was seen to mes the spectators cheer-busly. Podestrian, and hed off in the direction of nirship, but owing to the they long distance few cating the Zeppelin, which few miles from the coast. had been jest winged by a land gun, and was then finished by an aeropland which the leppelin fought to the last

with her gens.
The drible dropped in a field of corr, far from any habitation, and was completely destroyed. All of the crew were filled and their tode, bad ly charred. Some of the men appearhave jumped from the doomed Poctors hurried to the spe rvices were needles:

BYTHE RUSSIAN TROOPS

Reth grad, June 17.—The Duma it secret deson has passed a resolution pardon the Russia of the

One prisoner said his guns artilled becoming more intense, and fire general complaint of insufficie

brain during the growing period when nature declands are greater than in mature dife. This is shown in so many

pale faces I has bodies, frequent colds, and lack of alabition.

For all such children we say with uncointer albie carnestness: They shed Scott a lack of a lack of the very lac possession in concentrated form the very food elements to enrich their blood. It changes weathness to strength; it makes them stordy and strong and active.

Bowne, Torento, Out.