WEAPONS OF THE NEXT WAR

By Howe Martyn

minder of the War. The epidemic of damaged by explosives. Streets have planes with rows of coffin-like boxes in the dark? Have you gauze and war will be thrown on the flu that followed the War is reck- to be hosed down with water to clear fastened to the wings enabling them antiseptics so that you could do sim- sources probably in the first day of oned to have killed more people than them of mustard gas. But explosive to carry two dozen men. They have ple first-aid if you daren't go out to war. Their individual resourceful-

ducing epidemics, using germs to city under air attack. of a future war.

a tap for a thirsty child.

are to save themselves, they must the British have a bombing plane, in lead. in modern war."

so the water-mains were broken. ices.

demic of disease.

tions, railway, stations, bridges, wat- well-organized small forces. countryside as refugees.

no protection. Furthermore mustard tinue to fight. firemen away from fires and can weapons for invasion of other coun- simple obvious example is a supply !

died fighting during the War itself. bombs to break water mains and gas glider "trailers" that can be un- the drug-store? Military scientists took this as a bombs to keep men from repairing coupled from the towing planes and Bomb-proof and gas-proof rooms can reorganize to continue defence lesson, a challenge. They have stud- them, can be dropped together, thus can glide down safely with a large and gas masks have taken the pub- and prevent defeat and collapse. ied the possibilities of deliberately in- greatly prolonging the agony of a landing party of men. They have lic fancy more than simple matters

of reports on secret experiments with target. But the flying range of the breaks behind an enemy's lines. the Underground railway stations to ough to make their flying range cov- new distances. by radio.

of the world along with disease in war, so nightmarish that people of suit planes shot down or drove back down gas. best fire department, especially if al- to market, men to factories and off- gin of only 25% greater speed does

Nature did to San Francisco in the because armies, well-equipped, alert the Great War had an advantage in earthquake, and the destructive forces to defend themselves, have a fair gunfire which also they have now that man has made to loose from the chance to withstand even the newest lost. Modern bombers have autoair on cities, is completed by high destructive devices, whereas the matic guns and mountings protecting explosive. In San Francisco the earth peace-occupied people at home can them from all angles. Coming up shook and cracked. People were probably be overwhelmed. Whole na- under the tail of a plane was a favkilled under crashing buildings. Wa- tions or even whole cities will not be orite manoeuvre against the old ter and gas mains were broken. Elec- wiped out in a few hours by gas and clumsy observation plane which trical connections on which cities are high explosive, as is sometimes said: could shoot only forward and back now so dependent would be broken there is not enough gas made to and up. This play is now as dangerby shocks of this kind too. Fires cover thickly, such large areas. But ous as a meeting head on. The Unitstarted all over the city. The gen- war from the air on peoples instead ed States has a plane nick-named the eral disorganization led to an epi- of on armies, can and will be carried air battleship because of the amount on in the next war by disorganizing of equipment it carries. It includes High explosive dropped from planes attacks doing most harm through guns big enough to fire real explosa ton per bomb, has blasting power their after-effects. The air-raids ive shells as well as the bullets of sufficient to destroy individual build- will kill the country's leadership and machine-guns. ings and to rip impassible holes in interrupt its communications with All available defences against airstreets. However these bombs would the purpose of destroying its morale raids were tested in the London Exnot cause a very large number of and causing chaos and total defeat. ercises (British) in 1931. That would casualties directly. The casualty list The air bombers, the biggest fleets not be a test of today's conditions, of Madrid is comparatively small in of them in the world, cannot defeat but it is a good indication because spite of frequent bombing. High ex- armies, which offer too small, mobile improvements in bombers have been plosive would achieve its greatest and dangerous a target. The most at least as great in the interval as devastation by destroying the ser- vulnerable part of an army is its improvements in defence. The judgvices on the day-to-day regularity of supply service, the trains with their ment of the 'London Times' was that which people crowded in cities de- necessary tracks and bridges, the pend for health and even life. In a trucks with their necessary roads cepting a sufficient proportion of the planned war, explosive bombs from that bring food and ammunition. The raiding bombers to make the attack the air would be aimed at power sta- most efficient modern armies are a failure.

mains), food warehouses, government than a few thousand of the most pons of today calls for counter-atoffices, even at hospitals deliberately innocent peaceable people in one raid. tack, not on the enemy's raiding so as to complete the chaos. If these What they can do is deliver a ter- fighters but on the peace-life they objectives were reached, another war rific shock to a nation, such a shock have left at home. This strategy would indeed bring chaos-earth- as might even cause surrender. Ger- contemplates opposing air armadas quake, fire, plague, famine-and the many has an Air Force which is one passing each other on their way to survivors crudely fighting one an- of the biggest parts of its defences. destroy respective capital cities other as they looted for food, or Control of this is centralized very passing without engaging, perhaps crowding the roads and carrying efficiently in a wonderful new Air exchanging a sardonic salute! In their diseases from the city to the Ministry Building of 2,000 rooms in this utterly destructive kind of war, Berlin. The present Minister of War, the nation that in its peace-life is To these evils add still another- General Goering, has his office there. less vulnerable to destruction from gas-which has no parallel in Nature If that single building were destroy- the air is likely to win. but which man has conceived and ed in an air raid, Germany might Passive defence is not a good name brought to a terrible efficiency. Mus- conceivably have to surrender, be- in itself, but it serves to contrast tard gas is now the standard type. cause the scattered air bases would defence measures designed to de-Other earlier gases attacked the get no weather reports, no secret crease vulnerability of peace-life, from throat and lungs, choking the victim, service reports on enemy defences, defence by anti-aircraft guns, fighter or attacking his eyes. But mustard no radio signals about approaching planes and counter-bombing attack. gas does its work by blistering the enemy attackers, not even any orders One weapon of passive defence is skin. The United States' Lewisite as to how to co-operate with other food stored in dispersed warehouses poisons the blisters. It works at any German forces. Without its "brain" where it will be safe from destrucexposed point, so that face masks are the German air force could not con- tion in raids on a country's metro-

penetrates ordinary clothing so only The shock that some nations are will be available in war to keep the special complete suits provide pro- able to give to their enemies today people fed and strong. Another weatection. For full effectiveness, gas is so great that besides causing sur- pon is a duplication of essential serneeds to be concentrated, so the wea- render it might release savage revo- vices (light, power, water, transport, pon is used from the air not hap- lutionary forces which would change fire-fighting, radio, first-aid, etc.). hazardly but like high explosive to the world much more than the ag- This provides a "second line" on cause disorganization. Gas bombs gressors intended. The Russians, which a city can keep alive, organized can block roads, railway and street- great believers in revolution, have and free from panic even though the car junctions, can keep unprotected in their armory for the next war regular services are destroyed. A

squads of men trained to jump and of light and food, heat and hygiene, fight in another war. Wickham Steed, All these weapons for delivering land with parachutes from large cab- as passive defence measures. This former editor of the 'London Times', death from above of course have to in planes. The plan is obviously to is probably very unfortunate. As al-

bacteria made right in London and airplane has been tremendously ex- The problem of defence against the gas than of dying sick, hungry, cold, Paris by a foreign power. These tended. The exact mileage possibili- new weapons of shock attack is un- neglected in a panic. Deep, undertests concerned germs dropped from ties vary according to the load of like and more difficult than the de- ground shelters arched with steel and planes flying high over Leicester bombs a plane is made to carry, and fence problems of any previous war. concrete are being established in Eu-Square and Picadilly Circus in the the speed it must fly at to get There was war in the air, planes ropean capitals. They require elabone case and the Place de la Con- through safely. They depend also on fighting planes, in the Great War, orate ventilation arrangements to corde in the other, the germs being whether or not the generals want but this is war from the air, and the keep even a few people supplied with

Fire would strike the great cities The foregoing weapons of the next part of flying in the Great War. Pur- ment which will enable them to wash not give planes for defence any de-The resemblance between what These tactics have been planned cided advantage. Fighter planes of

the defence did not succeed in inter-

The best defence is attack! This, er supply (reservoirs, pumps and The air bombers cannot kill more proverb applied to war with the wea-

polis and on its transportation, and

of candles available in every home. totalitarianism, with its insistence on Could you get light to carry you mass psychology and incessant apthrough a night of emergency if the | peal to mass sentiment." With no electric power station were to be newspapers, no radio to tell them blown up? You may have candles what to do, people in the great cities The flu! Grim and recurrent re- prevent the repair of power stations tries by air. They have two-seater in the house but could you find them of all nations fighting in another

quotes from copies he has obtained be carried into range above their send troops to aid revolutionary out- ready seen, the danger is much less of being hit by bomb or poisoned by drawn with the ventilating air into their men and planes back badly en- attack can be spread over entirely vital air. A crowd would make them more lethal than a bullet-sprayed infect the throngs that pass through er a return trip. A United States' Anti-aircraft weapons of sorts have street. A series of doors and chamthem. The test germs were harm- seaplane has made a non-stop flight been invented. Anti-aircraft guns, bers is mecessary to keep out gas. less to people, of course, but the of 3,300 miles, which is about the which are effective to 10,000 foot Someone in the excitement of a raid tests proved that malignant germs distance from the Great War raiding heights in the day and 5,000 feet in would be sure to forget to close the handled in the same way would serve base, Zeebrugge to Halifax, Nova the dark, are organized in batteries door. Gas masks have similar weaktheir purpose as a dreadful weapon Scotia. Other nations will have so that their fire can cover consider- nesses. To be safe, they need to be planes as good. Great Britain has able areas. They are now given their good, and that means expensive. The Epidemics of typhoid have prac- high-speed long-range bombers which range by automatic machinery which masks the British Government is protically ceased in civilized countries in can carry a four ton load. Two hun- finds the height of approaching ducing by the million are worth only peace time owing to the development dred miles per hour is rapidly be- planes and calculates their speed so two shillings each: they are good for of great systems of reservoirs for coming the minimum speed for the as to work out accurately the posi- only fifteen minutes in a high conthe supply of water controlled for planes in service of all nations, bomb- tion they will be in by the time the centration of gas. For protection apurity. The reservoirs for the great ers as well as pursuit planes, al- shrapnel gets that high in the air. gainst mustard gas, in any case, only cities of England are like lakes. though speed is not so important and Sound detectors can locate enemy a complete suit will do. The best Broad and open to the sky, they are loads may be heavier for night bomb- planes before they come in sight. weapon of defence for ordinary peobeautiful features of the landscape; ing raids than for daylight work. Searchlights for showing up night ple is alert common sense which will they could not be missed by hostile Germany's Zeppelins have crossed the raiders are much improved. Most of keep them quiet and off the streets airmen dropping packages of typhoid North and South Atlantic with ease, the batteries of anti-aircraft guns and away from downtown centres, culture so as to strike the people of on regular schedules, and their fly- are mobile, some light guns being will make them boil their water be-England when they innocently turn ing range is so great, it has never mounted on old-style two-wheel auto fore they drink it and tend their been tested to the limit. This ad- trailers so they can be speeded to wounds carefully, will make them These weapons of the next war vantage is offset, however by their attacked points. Marconi invented wait for the "all-clear" signal from are horrible. But Captain Liddell comparative slowness and their bulk an electric ray to stop planes by cut- the authorities. Public officers, po-Hart, outstanding British military offering too good a target for anti- ting off the ignition of their engines. licemen, firemen, should be equipped writer, states the obvious truth this aircraft guns. It is not entirely But this has already been simply with complete gas protection, and way: "If the peoples of the world practical for long distances yet, but counteracted by casing the magnetos they should rush the "clean-up" work, for instance touring the streets with see for themselves the real factors the 'Queen Bee', which can be flown | Fighting planes with planes was the new street-washer developed in successful and the most spectacular England with an air-spray attach-

another war. Incendiary bombs have ten pretend they do not exist, are the much slower observation and Morale, then, is most important in been made of thermite, the great yet not so wild and inhuman as the bombing planes of that period. De- decreasing the vulnerability of the heat-producing chemical. They are intention that has developed them. fence against modern air-raids in the peace-life of a nation to the shock so powerful they will burn through Their aim is to destroy the peace- air is more difficult. Big bombers attack tactics planned by the milia solid inch of steel. They cannot life of peoples, not as with previous | nearly as fast as the fastest small | tarists for the next war. The Britbe quenched by water. Each one weapons and wars, their fighter planes are now built. Two ish expert, Captain Liddell Hart, dislanded in the buildings of a crowded forces. In fact, it is part of tactics hundred miles per hour is very nearly cussing "the preparedness of the part of a city means a three-alarm in the use of these weapons to avoid the minimum for bombers, whereas people" as a weapon of the first imfire. A squadron of raiding planes contact with opposing fighters, to the Thompson Trophy, raced for by portance, says: "A sturdy individualshould be able to start a dozen fires get secretly past them and strike the latest designs of plane, was won ism based on a regime of reason and in different parts of a city. This at the peace-life behind,—the orderly in 1936 by a French military pursuit freedom may withstand the shocks would be enough to disorganize the going of children to school, women type at 264 miles per hour. A mar- better than the emotionalism bred by

ness will decide whether or not they

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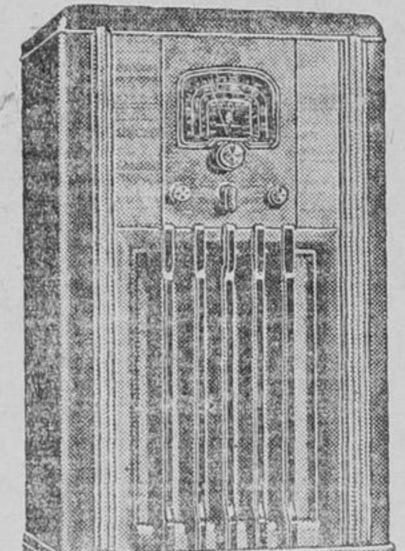




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