FORTUNATELY IT

WAS A FRIENDLY

IBERTY AND THE

GOVERNMENT SIGNAL

DOWN ON MISS

ILOT WHO LOOKED .

## NEW YORK EXPOSED TO BOMBING BY HOSTILE AIR CRAFT

Peary's Startling Statement of Possibility of Such a Raid Borne Out by Known Facts of the Wonderful Development of the Fighting Airship

OOD for thought has been given defending battling aeroplanes.

with the years to come, but plainly ducks upon the wing.

naval and military service. The most here. we can boast to-day is a matter of a few score aeroplanes; abroad the air stacle to marine aviation until of late.

heavier loads and flying at higher

Less than a year ago the Germans startled their foes with great biplanes of ammunition were carried receptacles. In order to give them great speed these fighting aeroplanes were provided with twin engines have jury ing a total of 340 horse-power. Mid way between the two fuselages, but a biggest of the navy's aircraft with a boatlike float of such dimensions and

Allies had brought down one of the German double fuselage machines that it became known that the French were it became known that the French were busy upon four engine aeroplanes of An both the biplane and the triplane type.

Machines of this sort soon demonstrated their ability to climb high and sharmen of the Conference Committee strated their ability to climb high and fast and also to survive damage that would have put hors de combat any of the ordinary military aeroplanes. For instance, one of these aircraft had a motor demolished by shell fire, which incidently build the observation.

Almost at the same time Voisin ma-chines were seen at Issy of the tri-plane type and with a wing spread of nearly 120 feet. Four 140 horse-power motors, arranged in tandem, two on each side of the fuselage, provided the has been introduced as a new force in propulsive energy and provision was made for carrying eleven persons in addition to ammunition, guns and an analysis and the army, the sea navy and the level military affairs, and therefore we have to-day available three arms of offence and defence, the army, the sea navy ample fuel supply for a long sustained and the air fleet.

mechanical flight for military purwits have led to remarkable developand more skilful and resourceful in the ways they handle the machines en- plicable force. trusted to their guidance. These men are all of them young, most of them navy be created which is reasonably bers of aeroplanes, a large corps of may be protected for all time, under 25 years of age, and the hazards safe from attack below and which can thoroughly trained pilots, anti-aircraft "But this measure of self-su involved have made a strong appeal

o their love of adventure the United States army, said recently: master of strategy; and, second, that the high explosive has taken the place of physical exertion on the part of what ought to be done at once if we form the high explosive has taken the place are not doing one-hundredth part of what ought to be done at once if we form the high explosive has taken the place are not doing one-hundredth part of what ought to be done at once if we form the high explosive has taken the place are not doing one-hundredth part of what ought to be done at once if we form the first part of the signal corps of the place are not doing one-hundredth part of what ought to be done at once if we form the first part of the place are not doing one-hundredth part of the place are not doing onetion; in fact, there is no use reading or property.

the military aeroplane's work, one in- land an aeroplane is said to have risen as an equal and an independent world ness? volving service immediately in touch to a height of 7,000 feet with twenty Power. We have now three masters with the firing line and the other long passengers aboard. This has not aswith the firing line and the other long passengers aboard. This has not asupon the sea: the British are wholly airplanes aloft carrying out mations. The former has been well detions. The former has been well deseedbad to a flactor publication which a fee may sweep uptorished us because feats almost our masters, the Germans, if it were independent our masters, and the best range finding system of the manner of the metropelis. I should be able to make the computation which at range finding system our masters, and the Japanese in the West in through which a fee may sweep uptorished us because feats almost our masters, the Germans, if it were independent our masters, and the best range finding system our masters, and the Japanese in the West in through which a fee may sweep uptorished us because feats almost our masters, the Germans, if it were independent our masters, the Germans, if it were independent our masters and the best range finding system our masters and the b scribed in a German publication, which accomplished. We know that Zep-masters, and the Japanese in the West know that en the broad roofs of our daring of the British airmen. The arsomething less than fifty men besides

Situated as we are with three masters. ticle describes the great number of sustaining a great weight of high ex- at sea we can neither command others hundreds of men in perfecting that enemy machines, and then goes on to plosives. over their foe's lines, showing the ut- first been used by Santos-Dumont in ken, to navigate by order of Germany

afford to carry weapons to defend the movements of our fleet."

By ROBERT G. SKERRETT. | chines which can fight off the enemy's | be long before vast bodies of men, con-

Hombarding fleets now include sevto New Yorkers by Rear Admiral Robert E. Peary's state-carefully determined ftineraries. ment of what might befall them should planned well in advance and followed any one of from four to six foreign at prescribed hours. Prearranged in Powers decide to attack the city by this fashion, an aerial bombing ex-Powers decide to attack the city by pedition very often consists of fifty or Rear Admiral Peary does not deal of a wide triangle, like a flock of wild

tells what might happen within the startlingly brief span of thirty days will make clear the practicability of a These details all have a bearing upon should any of the nations in question foe's attacking New York from the air. declare war upon us. According to It may not yet be apparent how an enemy could do this from a mobile base somewhere off the Aliantic seaboard, for instance, but the ploneer work of weeks thereafter Washington or New Americans suggests a possible plan. York or any of our coastal cities might be wiped out in a single night by incendiary bombs rained down from .cendiary bombs rained down from plane could be cataputed into the air speeding squadrons of great areo-planes. and sent off upon its flight from a floating platform. Within the past year All of this may sound rather fan- we have gone further, and with a tastic to most New Yorkers in their perfected launching apparatus have blissful ignorance of what is actually done this very thing from a ship mov-being achieved abroad. We are dis-ing along in the open sea. Foreigners tressingly far behind all of the fight- have been keenly interested in all that ing nations in this vital department of has been accomplished by these means

squadrons are measured by hundreds Even though launched from a ship, it was recognized that the aeroplane Here we have been amazed when could not return directly to the deck manufacturers have developed flying of the vessel after making its flight.
machines capable of carrying six or but would have to land upon the water. eight people, but in Itussia this per- and if the sea was rough the machine formance was exceeded by a handsome would in all likelihood be damaged, if margin more than two years ago. The not completely wrecked, before it would high explosives rained down upon our giant Sikorsky machines have repeatbee possible for the parent craft to cities, fortifications and other positions edly borne aloft fifteen persons and come alongside and lift it abbard. e great aeroplanes, for a time Again, the aircraft was handicapped looked upon as aviation monstrosities, if alighting momentarily for repair or have actually blazed the way for bat-tiling triplanes capable of carrying of the water anything short of nearly calm it was well nigh impossible for to lift her once more into the air. But this latter disability has lately

of a type patterned with two unusually been overcome by Americans through large fuselages and each equipped with the development of suitable floats. By its own tail features. The fuselages employing triple instead of twin floats were not only large, but armored to it has been possible for one of our expressions. protect them against gunfire, and upon perimental hydroplanes to get off the each were mounted two machine guns water from waves having a height of and a light automatic rifle. Generous seven feet and a length of 100 feet. This was done not only once but refor each of the weapons in separate peatedly, and it was also proved that the flying machine could alight upon the water in the open sea without in-

We have also equipped one way between the two fuscasts, but triffe lower, was placed the pilot's seat, shielded by special process steel. The crew consisted of six men, including almost any kind of weather at sea that would permit the employment of the relief an observer and a mechanic. It was not long after the Entente aerial scouting. What we have done

And now for confirmation of what

"I am thoroughly familiar with Rear incidentally killed the observer and wounded the pilot, but the remaining motive power sufficed to bring the aeroplane safely back within the French lines under the guidance of the injured pilot.

"The air navy is destined to be

quantities of high explosives? The with their use. It is no wonder that Lieut.-Col. war has proved two things which be-George O. Squier, in charge of the fore its outbreak were decidedly con- and navy to-day developing these in- we must move along quickly and aviation section of the Signal Corps of jectural. First, that air power is the strumentalities of protection? I un- widely, and the national funds

teresting; it is simply wonderful to see practicability of carrying aloft many There are two distinctive phases of plosives. Only the other day in Eng- American people if they are to survive

At and on the sea, when sufficient dirigi- quately. times they sweep down within pistol bles have been produced by any navy, shipbuilding and manning capacity, shot and blaze away at us in our holes that navy will cease to be subject to and our people must be made to realand trenches with their withering ma- the disadvantage of an unexpected or lize that in order to get rid of our mas-

stituting an army, will be transported not by Zeppelins but by aeroplanes at comparatively insignificant cost, over great distances, at enormous speed. and despite terrestrial obstacles.

"One need only conceive a fleet of a thousand of the new British planes. each carrying twenty men, to pictere what it may be possible to do with 20,000 armed men in making a surprise attack upon a point at a considerable in the transportation of troops undreamed of heretofore. To-day the slowest troop transportation is upon land, and the most rapid is by water; but where troops affoat can be moved at the rate of fifteen sea miles an hour, through the air they can be carried easily at five times that speed,

the near future with my feet firmly set upon the ground of established facts. Europe until now has not been able to do this thing simply because the battling countries have been too much engaged with the exigencies of actual strife. But the moment they can settle down intensively to development, profiting by the vast experience of war, the world will be suddenly brought face to face with the marvellous made commonplace.

"The air holds for us in the United States a nearer menace than this, however. It is not large numbers of fighting men delivered upon our shores by way of the air that we need most to fear, but rather great quantities of vital to our national well being.
"We have nothing in this country.

even in primitive form, which might justly be called a system of air defonce. We have neither anti-aircraft guns nor means for detecting the apthe seaplane to gain headway enough proach of hostile air fleets. We have to lift her once more into the air. ing force nor qualified pilots to manage the aeroplanes if the latter were at once available.

"Any Power that is our master at sea will be able not only to blockade our coasts, destroy our commerce, and. if it wishes, bombard our coast towns, many of which, like Gloucester, Mass. are wholly undefended-but it can send from its ships large fleets of aerobearing many thousands pounds of high explosives, with which



"The war has also brought out the a hostile fleet off our shores.

nor disobey them and so long as we "We must remember that the dirigi- tolerate this dominance we shall be

Sea power is based upon any of his weapons.

"Think of the wonderful mark this aloft!

"But this measure of self-sufficiency transport great bodies of men and guns and apparatus, and men familiar will ever clude us if we hesitate to provide ourselves with that potent in-"To the question: Are not the army strument air power. In this direction thrilling thing to watch them in ac- men bent upon destroying other men are able to be made safe against an will. Our present status is distressing, inland aerial invasion carried out from fraught with danger. Just think of it, here we have a city of well nigh inpracticability of carrying aloft many men and great quantities of high ex-"Another matter of vast importance calculable riches, and what is there at of

"As I look south from my office win-

the movements or our neet.

In modern man power such as the world the movements or our neet.

In modern man power such as the world the movements or our neet.

In modern man power such as the world the great Mississiph Valley and possible sight for one moment of this perillus.

In modern man power such as the world the great Mississiph Valley and possible structive man for the old Latin has never seen elsewhere, and yet in sind for one moment of the problem.

In modern man power such as the world dreds of miles miand could be raided still as the source than of hitting any dreds of miles miand could be raided still as the source seen elsewhere, and yet in sind for one moment of the problem.

In modern man power such as the world and free the old Latin has never seen elsewhere, and yet in sind for one moment of the pool of the modern man power such as the world and free the old Latin has never seen elsewhere, and yet in sind for one moment of the source than of the old Latin has never seen elsewhere, and yet in sight for one moment of the pool of the modern man power such as the world and free the old Latin has never seen elsewhere, and yet in sight for one moment of the source than of the old Latin has never seen elsewhere, and yet in sight for one moment of the pool of the man power such as the world in the set within the sight for one moment of the power such as the world in the set of the old Latin has never seen elsewhere, and yet in sind for one moment of the source than a sight for one moment of the source that of the source than a sight for one moment of the source that it is the problem of the old Latin has never seen elsewhere, and yet in sind for one moment of the source than the starting and the starting and the security such that of the source than the mover seen lessewhere, and yet in starting the starting and the s

once and pushed with the utmost con- that sort is commensurate with the entration of effort! position which is rightfully ours in "It is the knowledge of what may the association of nations."

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A GIANT AIR BOMB OF

BRITISH DESIGN.

centration of effort! happen to us; of our inability to re-sist; and of the almost hopeless folly upon the work of a hostile fleet servt; and of the almost hopeless felly upon the work of a hostile fleet servour people that makes me hearting as a mobile lase for the launchcal features before him, will locate that their recal will not wrack or imsick. Look down that long vista of ing of an aerial attack. But there is on his map any particular target, on his map any particular target, porti the stability of the aeroplane, will not the block number and dustrial wealth and manifold hungan fensive part that might be played by will signal by rade the block number and the instant one of these missiles activities, and then look up to the sky the transporting or escorting battle to the battery. The officer at the fact the cavidage of a dirigidle the activities, and then look up to the sky the transporting of with less nut tery, having a duplicate of the map, the great control and through which a fee may sweep up craft in conjunction with less nut tery, having a duplicate of the map, the great control

ses? inederate individual powers of attacks can deliver a fire on the selected epot. "How many times since the world Leading up to this, let us quote somes within a few minutes." tall buildings there are anti-aircraft guns being daily exercised by many war began have we shrugged our thing from the statement of Maley-This may sound ingentous and novel building there are Great Britain's insularity. Gen. Erasmus M. Wenver, chief of to the uninformed American, but the great state of the art of Zeppan building, and with arm of protection, and I should be self-satisfied conservatism and stab-comforted by the knowledge that we been faith in her self-sufficiency? And the middle of last December. Gen. the daily practice on the battle frontrelate how the British aircraft are seen aloft in squadrons at dawn, circling ble is only sixteen years old, having over their foe's lines, showing the utmost indifference to bursting shells or flying at so low an altitude that the decolate of the aeroplanes can be seen with the unaided eye. It says:

"The pilots are frequently English of a country to build ships quited in the words of Mr. Mentals and the protected by the knowledge that we have powerful escribilities of the send that the aeroplane was first been used by Santes-Dumont in 1960, and that the aeroplane was first seen in public but nine years ago.

Nevertheless aircraft of these types have showed the explaining to the protected by the knowledge that we have powerful escribilities of the send in the words of Mr. Mentals at the stangering status of the send they are the fact of the send that the aeroplanes can be seen with the unaided eye. It says:

"As to how to regain our lost sea altitude that the skeen in public but nine years ago. Nevertheless aircraft of these types have since been so far developed that we since been so far developed the was confronted well nigh with a stargering searchlights at many points where they could sweep the skeep of the potential them the self-sufficiency? And the middle of 1st the soft is conforted by the knowledge that we been of our coastal cities were to be far nevel so there was confronted well nigh with a stargering strange in the potential the was conforted by the knowledge that we been of our coastal cities were to be far nevel they been of our coastal cities were to be the was conforted well nigh with a

The bombing work calls for certain special qualities in the machine; it must have good speed and be able to climb rapidly and maneuvre easily in order to escape from the fire of anti
The bombing work calls for certain for at least two days, and, I believe. The bombing work calls for certain for at least two days, and, I believe. The fertian word would be able to see over a horizon measured sources.

The bombing work calls for certain fraction when the fire fertian word and would be able to fertian word and would be able to sources.

The bombing work calls for certain fraction when the fire fertian word and would be able to for an advantable to the fertian word and would be able to sources.

The bombing work calls for certain for at least two days, and, I believe. Sources.

The bombing work calls for certain for at least two days, and, I believe. The fertian were in the fire fertian word and would be able to for any or the fertian word and would be able to for sources.

The bombing work calls for certain for at least two days, and, I believe. The fertian word and would be able to for sources.

The bombing work calls for certain for at least two days, and, I believe.

The bombing work calls for certain for the fertian were in the fertian word and would be able to five the fertian word and would be able to the fertian word and would be able to five the fertian word and would be able to the fertian word and would be able to five the fertian word and would be worder.

The bombing work calls for certain for the fertian word and would be able to five the fertian word and would be able to the fertian word and would be able to the fertian word and would be able to the fertian word and word the fire the fertian word and word the fertian word word the fertian word and word the fertian word

"Aerial preparedness is, to be sure, mary armament, guns and mortars, where they could do the greatest dams. He is Admiral Peary and Henry A. city would offer to bombing squad- "Aerial preparedness is, to be sure, many armament, guns and mortars, where they could do the greatest dam. He are Admiral Deary and Henry Arrons! Where are our defending air- but a single phase of the many angled bereafter shall have all around fire, age with a minimum waste of am. Were Wood we there have to recken and trenches with their withering machine guns. These youngsters have left invaluable aid to our enemy's artillery. Nothing seems to dismay them aloft, and if one is winged or lost their work of detection and spotting goes on just the same, because five of injust the same, because five of their original group remain to spy upon us."

The disadvantage of an unexpected or sunder the sunder the sunder that which is being installed at an unities.

At her disadvantage of an unexpected or sunder the disadvantage of an unexpected or sunder the sunder the sunder the sunder that which is being installed at the variable and that which is being installed at the variable and that which is being installed at the sunder the sunder the sunder the sunder the disadvantage of an unexpected or sunder the sunder the sunder

afford to carry weapons to defend the movements of our fleet."

Ships inform the German fleet about race, possessed of a concentration of set on fire, and industrial centres hunders afford to carry weapons to defend the movements of our fleet."

Take to the north Westchester, to the west dirigibles so far aloft that they could be raided the great Mississippi Valley and possible to the north Westchester, to the world dirigibles so far aloft that they could be raided the great Mississippi Valley and possible to the north Westchester, to the world dirigibles so far aloft that they could be raided the great Mississippi Valley and possible to the north Westchester, to the world dirigibles so far aloft that they could be raided the great Mississippi Valley and possible to the north Westchester, to the world dirigibles so far aloft that they could be raided the great Mississippi Valley and possible that they could be raided the great Mississippi Valley and possible that they could be raided the great Mississippi Valley and possible that they could be raided the great Mississippi Valley and possible that they could be raided the great Mississippi Valley and possible that they could be raided the great Mississippi Valley and possible that they could be raided the great Mississippi Valley and possible that they could be raided the great Mississippi Valley and possible that they could be raided the great Mississippi Valley and possible that they could be raided the great Mississippi Valley and possible that they could be raided the great Mississippi Valley and possible that they could be raided the great Mississippi Valley and possible that they could be raided the great Mississippi Valley and possible that they could be raided the great Mississippi Valley and possible that they could be raided the great Mississippi Valley and possible that they could be raided the great Mississippi Valley and possible that they could be raided the great Mississippi Valley and possible that the great Mississippi Valley are the great Missi

hopes some day to arm the positions Cuffley in September last.

ONE OF OUR ALL TOO FEW ANTI AIR CRAFT

GUNS ABOARD THE BATTLESHIP TEXAS

the Committee on Military Affairs, be- ter, is no longer encouraged, because fore which he appeared, if he meant there is but one chance in a thousand "that the emplacement of guns now of hitting the mark even when the directed seaward would be in position bombing aeroplane is able to surmound to be used in the rear?" The chief of the Zeppelin. The French tried liquid Coast Artillery answered:

map the country very carefully, tope-eraphically, and then have it blocked in placed in incendary bullets or ex-off this is with reference to lates placed which can be fined from a

knowledge that already some of the foreign appointed swift in flight of Kaiser's dreadnoughts have 15-15ch amozing chinling power, and armed rifles. The German fleet may have with small machine gans using incen-still bigger gans in preparation, but diary builds. The exact nature of the significant point is that the navo! there missiles is not known, but their 15 inch gun has a higher velocity and action was startlingly and tragically, probably quite the range of the 16 iffustrated when Lieut, Robinson deinch weapons with which Gen. Wenver strayed the Zeppelin that fell near

tentioned.

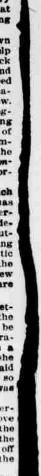
Gen. Weaver was asked by one of dirigibles, despite the size of the latoast Artillery answered:
"Yes, in this way: We propose to they were dangerous to the carrying

hydrogen is tollamed and the doom of

the general knowledge of their crust-

ground, and we are absolutely blind policy of the War Department as now without fear of effective interference aloft!

Link to able to sour a off substantially without fear of effective interference and different feet and according to both



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ngs ttle ares nice sn't'