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FLASHLIGHTS ON THE BRITISH FLEET

SUBMARINE FLOTILLA. reach this lock, and there find sufficient air imprisoned to keep them

is nothing to equal the sub- eighty-three on order. marine in interest for the average It may not be generally known that ful and their power so wonderful-- cular in section with a cigar

tention wherever they appear. ment under struction.

Copying Other Nations Though by no means a modern invention, the submarine can count its life as from the coming into being of the first French and American boats. and before we undertook the con struction of submarine vessels. France and the United States had a considerable number built and working. We chose to copy the American type, and so the Holland, our first boat, came into being. Her engines. driven by gasoline, were able to propel her upon the surface at a speed of nine knots for a distance of 450

balance and swamp her.

Weatherly Boats

sea in practically all sorts of wea- point and was not dangerous in any ther. In addition, the new vessels way; and with this type of engine al have been fitted with four torpedo our later boats, and those building at tubes, splendidly efficient, and able the moment, are installed. to discharge the latest type of 18- The electric motors with their ac inch Whitehead torpedo; further- cummulators likewise caused trouble more, to protect her against the at- at first, but nimble brains and hand tack of the enemy's submarines and have overcome these difficulties to give her sharp teeth the power to with the usual ingenuity of mankind bite, the latest vessels of the "D" Next, the fitting of the heavy torclass and all the "E's" have been pedo tubes and the placing of th fitted with a beautifully modelled lit- spare torpedoes in both the bow and tle 3-inch quick-firing gun, so mount- stern of the boat was a move in th ed that when the vessel is about to right direction, for with all the heav dive the gun can be lowered inside weight of two torpedo tubes in the the hull and the deck closed over it, pointed bows it was found that the to rise up quickly when the occasion vessel never really lifted her nose to

The boats which quickly followed the original Holland belonged to the "A" class, and have a displacement of 204 tons, and were armed with two disasters began to fall upon us, and torpedo tubes in the bows. In 1904-6 the "B" class, with a length of 135 feet and displacement of 314 tons, quickly followed; and, vet again. came the famous "C" class, which perience and improvement. had little difference to the "B's" except in the matter of speed. At even away with the Eastern fleet at the A3. Hong Kong, whither they proceeded without a hitch under their own For the safety of our boats' crews

A Fleet of Sixty-Eight

Triple Entente

Dual Alliance.

Neutral Powers

SUBMARINE FLOTILLAS OF THE GREAT NATIONS.

Great Britain

of F all the units that go to make year we shall have at least sixty- suits. up the great British Navy there eight boats completed out of the

landlubber. There is something so the designers and builders of these sinister, so mysterious, so awe-in- sinister fighting machines are dividspiring about the underwater fight- ed into two camps. One party hold ers-their mission in life is so dread- to the submarine proper, which is cir that they command respect and at-spindle-shaped hull, its ballast tanks being found within the main It was only fourteen short years and with its flotability limited. The ago-to be exact, on October 2, 1901 other party take the view that the -when our first submarine took the boat should follow the lines of the orwater; just a puny, tubby little boat dinary surface vessels. In this case of 122 tons displacement. From this the cross-sections are not circular, modest beginning we have gone stage the hull being double, either partially by stage light up to the 810-ton "E" or completely, with the main ballast class, which are at the present mo- tanks formed between the inner and outer skins; and, owing to their boat shape, they are much better sea boats for surface work, and have a wider ine cable), where the men are condeck space for exercising their crews. It is not possible to go further into technical details for and against both these designs, but the fact remains that we have, right up to the coming of the "D" and "E" classes, pinned our faith to the cigar-shaped submarines, whilst the French and Germans, with several other of the Continental powers, have generally looked with favor upon the boat-shaped

The Coming of Oil Fuel

In the same way as the size and To-day the engines of the latest speed have developed, so have the type of submarine can drive the boat engines. Originally fitted with elecfor considerably over four thousand tric motors only, gasolene engines miles. One torpedo tube, not par- were afterwards installed in the ear ticularly efficient, was placed in the ly French vessels, with the resul nose of the Holland, and one well- that we followed suit with our first protected propeller took its place at vessel at a later date. But gasolene the rear. She had no conning-tower, was found to have its drawbacks. I and her hatch, flush with the deck, a confined space the fumes of this prevented her from working in any- extremely explosive fuel became dan thing but the calmest weather; other- gerous to the men who were forced wise an unruly wave escaping below to breathe it; secondly, it explode could instantly upset her delicate on more than one occasion with dis astrous results.

In time it was discovered that en At the present day the "E" class gines could be made which used have a lofty conning-tower and heavy oil, a thick, treacle-like fluid roomy bridge, and she can cruise to that had a comparatively low flash

the seas, but rather smashed through them in a drenching mass of frenzied

Thus we come to the time wher we began to pay the dreadful toll in life that man has always to forfeit for every new invention before he can profit by his losses through ex

Germany has built a salvage ship Vulkan, which it has had to use on at length came the "D's," which are the least one occasion. Here it must be most powerful boats at present in said that, notwithstanding the fact commission, with a displacement of that our submarine fleet is so varily 595 tons and a length of 150 feet superior in numbers to the "unter-Twin screws now made their appear- seebooten" of the Fatherland, we do ance, and the ballast tanks were not at present possess a salvage ship placed outside the main hull of the of a like nature, though the new moboat in two long irregular-shaped ther-ship Adamant has a derrick tanks. At first confined to home wa- erected over her stern, and a new ters, these submarines have scatter- salvage lighter has just joined the ed until we find that some are now fleet, and did good work a short time stationed at Gibraltar, Malta, and ago when sudden disaster came to

Life-saving Helmets

we rely upon the wonderful Hail-Rees life-saving helmets, which are In fourteen years we have over- placed in all our newest type of subtaken the French-always the pio- marine. This device consists firstly neers in these new ideas for either of an air-lock, which is so placed land, water, under-water, or air that when the vessel founders and transport-and by the end of this fills with water the men can quickly

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Bldg

ficient air imprisoned to keep them alive until they are able to don their

These suits consist of a light helmet and a waterproof jacket which is fastened round the waist. The helmet is fitted with a device which puri fies the breath of the man, so that h can breathe the same air over and over again. When he is ready he gropes his way to the conning-tower and opens the lid, and then inflates his costume and instantly rises to the surface, where he is kept afloat

In the boats of the "D" class there are eight costumes placed "forrud," nine under the conning-tower, and eight at the after hatch.

At Fort Blockhouse, the headquar-Division, there is a diving tank (it was formerly used to store submarstantly being trained and made familiar with the invention upon which at any day and hour their life may

In addition to this, the lights are at times turned off, and the crews of the boats are not only trained to work the boat and go about their luties in total darkness, but, further, they are taught how to get into the ir-locks and don their costumes vithout confusion in the awful black ness of the interior of a submarine

We will now, in imagination, take a closer peep at these fearsome naval fighters, and a first glance at the calm, clean-shaven fellows who have so readily offered themselves for the service in which they have made hemselves masters.

Gingerly we take a walk up a swaying plank and reach the long, narrow, steel-clad space that is dignified by the name of "deck." Standing six teet or more above this deck s the small bridge perched on top of the conning-tower. Here stands the officer and helmsman when the boat s in service trim. The wheel is of polished brass, gleaming bright against the grey paint of its surround ings—a wheel that, like the stanchions and other devices not necessary or under-water work, is removed when the boat is about to go below. Now let us descend a naked steel ladder and leave the daylight behind. As the torpedo hatch is closed, gentle burr-burr-burr of the big oil engines tells us that we are getting away to sea. Right forward are the two bow tubes, each with its spare torpedo gleaming at its breach; aft n another tube and another torpedo outside, instantly ready for use.

On every hand is a wonderful array of copper tubes that seem shine from every direction; the wheel of the hand-pump is at our ight hand, and great compressed air cylinders take up a considerable amount of room.

A Camera Obscura

The man at the wheel, when at work below deck, has no compass, but keeps his eye upon the iron beam before him, where the card of the compass is reflected by a neat arrangement of mirrors from the compass placed outside the hull of the

Alongside him an officer grasps the handles of the box-like base of the periscope. This is a long tube which extends right up high above the boat, and when she is submerged is the only thing that is above the surface, and is practicable invisible at a dis-

Inside the periscope are a wonder 'ul series of mirrors, by which the whole of the surface of the surrounding sea above the boat is reflected before the officer's intense gaze, and by which he searches the horizon with more ease and accuracy than if he was on deck looking through a

After the first momentary tightness about the chest has passed away, the air is breathed regularly, as if you were on deck. Near at hand a lever is gleamingly at rest, but single movement the main ballast can be blown out and the boat instantly sent to the surface.

The Electric Kitchen

For cooking purposes the crew are supplied with electric apparatus, and for sleeping have the usual Navy hammock. The boat is one whole compartment, and so the officers and crew learn to know each other as they never do in any of the big ships of the line, and with the better acquaintance comes better understand-

There is a great future before the submarine. This belief is held by the greatest naval experts in the world For notwithstanding the fact that waterplanes are able to "spot" the submarines by flying over them, the under-water ship will do all its deadly work in the darkness, where the aeroplane would be useless.

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