U.S. Navy Leads in Development of the Submarine

But Perfection Has Yet to Be Obtained in the Under-Water Craft-This Country Leads

in All Except Numbers - Submergence Forms a Defense Not to Be Overcome by Any Known Means of Attack-Appropriations Made by Congress for Submarines-The Two Classes-Problems of the Naval Constructors-Importance of Speed-European War Forces Respect for Tiny Fighters-Boats Being Constructed by the Allies and Germany.



vercome by any known means of attack. Only when it comes sufficiently near the surface to deliver its torpedo is it vulnerable to the assault of hosbrightest and most scientific minds in the world are engaged upon the problem of how to resist and how to attack submarines and, so far no conclusive answer has been found. Enough is known of what submarines have acknown of what submarines have accomplished in the way of attacking and driving from its positions the greatest haval armament the world has ever known and in the damage done to English commerce in the forbidden zone, to show the present value of this new engine of naval war, and until a defense is found no one can tell the limit of the dreadful powers of this sort of boat as they increase in size and speed.

A sufficient number of these vessels menace that it would not be feasible for any European nation to send troop ships and transports to this side of the Atlantic until the silent, mysterious boats have been disposed of, and there boats have been disposed of, and there is no way known to dispose of them. They cannot be attacked by enemy submarines, for under water they are blind. In any event it would take so long to dispose of a large number of submarines, if we had them, that the time gained would be of inestimable value for the conversion of our national resources into war assets.

The last session of Congress appro-

priated \$550,000 for each of sixteen submarines for harbor and coast de-fense, and \$1,500,000 for each of two submarines to be seagoing fleet sub-marines with a surface speed of as near as possible to twenty-five knots. Those of his first class are to be mere-ly improvements upon the commis-sioned coast defense boats and do not

Under-Water Endurance-Most Famous of Present-Day Craft.

ly, to run away from it. A speed of twenty-five knots puts all but the swiftest merchantmen at its mercy, as very few of them can make that speed. And while the submarine does not dare on the surface to approach within range of the guns of a warship, that speed will enable it to maneuver about the dreadnaughts and superdreadnaughts. The latter are not fast enough to withdraw from the sight of a twenty-five-knot submarine, which could keep up the chase until opportunity came for using the torpedo. The increased power and steapning radius will enable it to reach an attacked point with certainty and in a reasonable time. Such a submarine would have little difficulty in sailing from Kiel to the Dardanelles, and would probably be able to "duck" all interfering warships.

When it is remembered that the speed of the crack destroyer Alwyn, with a displacement of 1,156 tons, is only 29.5 knots, or 4.5 knots faster than the new boat, which must be designed to run under the surface, as well as upon it;



these boats, but in spite of the various plotures which have been published of them, but little is really known of their number or their design, although they are thought to have continued the type in use before the outbreak of hosema apparently trivial reason, one of tillites, which are about the same in the officers told the captain he would tillites, which are about the same in the officers told the captain he would of their usefulness and would never be states and would never b

the North sea resorted to the very little crunching sound was heard, and the Pacific.

The handling of the boats which go ence with certainty until t ing trawler, disguised as a neutral, tow length not a vestige remained of the below the surface of the water as an about to strike their fatal blow



crew or of the boat, which will be men- aeroplane goes above it contributes as

size and design as our coast defense like to go to the surface. His com-type. It is known that the English like to go to the surface. His com-brought back, have behaved well, and, which the most temperate statesman-

size and design as our coast defense the bike to go to the surface. His complete that the English government canceled an order given before the war for one large boat of high speed, and instead contracted for five of the old type.

It is known that some of them carry one or more quick-firing guns, which at time of submerging sink into openings in the deck, where they are covered and protected from the water. These are used against hostile airships and upon light warships and merchant ships.

There is quite a general error as to the time a submarine can run under water. It depends upon the degree of the time a submarine can run under water. It depends upon the degree of the time a submarine can run under water. It depends upon the degree of the time a submarine can run under hard time of the missed has een her first a shot from the time a submarine can run under hard time a submarine a submarine can run under hard time a submarine a submarine can run under hard time a submarine can run under hard time a submarine a submarine a submarine a submarine can run under hard time a submarine a submarine a submarine a submarine can run under hard time a submarine a submarin

AROUND THE CONNING TOWER.

Paris, in Midst of War, Prepares Autumn Fashions for American Women PARIS, June 15, 1915. CREAMING styles are in the air for autumn. This is not a fashion article but, rather

The Fur Trimming Craze to Come With First Cool Days-Utilizing Skins of Rabbits,

Cats, Rats and Dogs to Manufacture Imitation Seal, Ermine and Chinchilla - Use of the

Dye Brush—But Paris Furriers Say Fashions Will Be Beautiful and Altogether New—Queer

tic, sporting and industrial, with a dash of natural history and judicious inquiry why they do it.

Silhouettes to set off fur trimmings. Dressy office girls are liable to go cats, rats and rabbits. down town in shoulder capes with falling tabs as big as aprons, striped with—wait, I'll tell you.

It is almost paradoxical.

"Rich American women set the pace," he said. "by loving only beautiful with—wait, I'll tell you. he said.
Struggling wives will stroll to mov-



"It is not our fault" said Vladimir "It is the love of the beautiful, He referred especially to little dogs,

peisse," said M. de Lamarre, coming shaved rat. The inventor of the proc-up. He is one of the great fur experts ess has become a millionaire. You take of the world. I have made mantles a ratskin, and another, and a lot more. lined with black fox for \$20,000, but not recently for men. Even astrakhan has gone away up in the past two work quilt. Give it a haircut—the management of the world.

the fur-trimming craze.

black fox stoles. I chose the most beau- a charming product, and the rusty dock tiful. It proved to be a "lustre"-red rat, except that his skin is tender, not

but, rather, sociological, esthe-

Shapes of Coats and Capes for the Autumn Season - American Women Set the Pace for Beautiful Furs, and the French Depend Upon Their Custom.

A Demidoff might order a black fox honor the product, which is clipped or isse" said M de Lamarre, coming shaved rat. The inventor of the proc-A long coat may cost from \$800 chine cannot be bought, it must be rented on a royalty. The smoothing

Which makes the second step toward the fur-trimming craze.

Scarcity—and the dye brush.

He brought out two lovely, lustrous black fox stoles I chose the most beau-



tions, who have it lumped with the storage, never keeping their furs at home through the summer. Naturally, the great houses refuse to tell their trick. The premiums are all pure profit. It is said they never lose a skin or garment.

Now, insurance on a fifty-dollar stole of dyed black fox—beg pardon, luster—is more reasonable than on the natural article, worth \$5,000. Worse, a second skin is needed for the muff, which makes \$10,000 as against \$100.

"It all comes to this," said de Lamarre, "women of all categories, rich and otherwise, know and love beautiful things nowadays, and are not content with a single fur garment."

Which brings on the trimming craze in full.

"It is not our fault" be reposted.

Which brings on the trimming crace in full.

"It is not our fault," he repeated.

"It is a world current."

Never were natural skins so dear.

No matter. The market is continually rising. It makes no difference. Since the war broke out, in August last, there has been no market. It is nothing.

ing.

The Leipzig fair took place, for Ger-The Leipzig fair took place, for Germany only. Great quantities of beaver and astrakhan were sold, for richer officers. The rest was army furnishing, sheep, lamb, etc. What do women know or care, in Paris and New York? The times are ripe. The war strikes the hour of new outlines. Ermine, chinchilla, sables-tails, putois (fitch), light fox mole and flying-squirrel are the extremely fashionable furs for trimmings.

rimmings.

Not to mention skunk!

"The skunk comes from America," said M. de Lamarre. "We used to buy them for \$1 or \$2 per skin. Today they are worth up to \$20 per skin."

Evidently, the struggling wife (you SHOULDER CAPES, WITH FALLING Say) will find skunk trimming dear? YOKED, FLOUNCED AND SCALLOPED, TABS AS BIG AS APRONS, SKIRTS No. Skunk trimming is within the RUFFLED LIKE CLOWNS, IN reach of all. It is made from flying- ERMINE.



Albino Lake Trout.

A MONG the interesting exhibits at the New York aquarium is a collection of albino trout. These crea- They stand with plain collar, chained. tures, which are all of a clear cream The motto is "Crom-a-boo," which white, including their fins, with no color about them except that of their characteristic bright ruby-red eyes, are most striking and curious in appearance.

bands of moleskin three deep on the yoked coat of the flower-faced shopgirl. How? Why?

Moleskin is made out of little dogs. And rabbits.

Ermine ruffs, square turn-over collars, ermine cuffs and edgings lend a purity and freshness to young beauty. It is the emblem of purity and honor without stain. Ermine, you say, is expensive. Since the middle ages, it has garbed royalty and the judges of mentermine is made from the white domestic cat.

So, the propid woman, with her wealth, you conclude, must fall back on chinchilla. It is the choicest of indoor furs. No other skin so resembles the plumage of downy-feathered birds as the skin of the little mouse of the Andes. Chinchilla becomes rarer and more costly each year. Chinchilla trimming is the appanage of the rich.

that they come from the Himalayas, Tibet, Mongolia, Siberia. To be precise, they are very tiny rats. The Russians who discovered them counted on making millions. The supply is great, but, unfortunately or fortunately, they have to be "worked" to imitate their rich relations of the Andes, they work-ing" is artificial. So it would appear that the vast stock which has piled up in Russia since last August is destined to delight the modest purses of good women.

Heart up! Every one shall have fur trimming.

Striped and zebraed, banded, edged and spotted, tabbed and aproned, yoked, flounced, collared, ruffed and bordered, the good women will disport themselves in new shapes, humped and puffing, shoulder-caped, hipped-jacket-ed, aye, scolloped, or in lone lines vertically ring-striped. What do I know? They are silhouettes adaped to fur trimmings.

It is hard to be exclusive these days.
Girls who wish to hold your heads up, ask for Asiatic chinchilla. Real, no imitation.
They are silhouettes adaped to fur trimmings. "Queer." I said, quitting the great Paris house of real furs. "Queer." replied Vladimir, "but beautiful. Our sympathies are with all women. I am glad that they shall have fur trimmings." STERLING HELLOW.

Monkeys in Heraldry.

characteristic bright ruby-red are most striking and curious in appearance.

In its natural coloring the lake trout shows on its upper body white or grayish spots on a brown background. On the larger albino lake trout the spots can be discerned, appearing as very faint spots of the same color, but of a different weave in a woven fabric. These spots show so faintly that they would never be noticed by one unfamiliar with this species and its markings. To the casual eye these fishes present bodies of solid unbroken white.

The lake trout is a handsome fish, and these albino trout are perfect specimens without a blemish. They appear not as freaks, but simply as graceful and beautiful white fishes. To display them to greater advantage by contrast the larger albino trout are shown in a tank of brook trout.

Seven Chances.

Seven Chances.

Was adopted in the year 1316 by John Fitzthomas Fitzgerald.
When this Earl of Leinster was an infant he formed one of the residents of Woodstock, now belonging to the Marlborough family. There was a fit fit wood for woodstock, now belonging to the mark the formed one of the residents of Woodstock, now belonging to the mark the formed one of the residents of Woodstock, now belonging to the Marlborough family. There was a fire for Woodstock, now belonging to the Marlborough family. There was a fire for Woodstock, now belonging to the Marlborough family. There was a freake of Woodstock, now belonging to the Marlborough family. There was a freake of Woodstock, now belonging to the Marlborough family. There was a freake of Woodstock, now belonging to the Marlborough family. There was a freake of Woodstock, now belonging to the Marlborough family. There was a freake of Woodstock, now belonging to the Marlborough family. There was a freake of Woodstock, now belonging to the Marlborough family. There was an infant he formed one of the residents of Woodstock, now belonging to the Marlborough family. There was a freake of Woodstock, now belonging to the Marlborough family. There was a freake

COAT CAPES, HIMPED, BOX PLEATED AND FLOUNCED, BORDERD
NITH WIDE BANDS.

The other, exactly like it, but seems of maniacal business men will spread of mensions of mensions will spread of the special will be deviced. The deference of form will be desirable will be added with the mention river rats from South Americas polential that a man has a man turns of the mention river rats from South Americas and black with them will be deversified out a man who will worked," said Vladimir, sag, the select circle of all. It is made from flying—sead to will worked," said Vladimir, sag, the sead that the bouse of Grunwald deals in it. I tell you these white them, will spread the sel