

PROPOSED TYPE OF TORPEDO BOAT

long realized that the boat at present in use is far from being as efficient at it might be. The present type of and a party of five midshipmen.

The reason why the navy department had so long clung to the type lay in the fact that the steam launch had been found to be the only vessel of a steam driven type that could be them. But they are unsatisfactory in many respects. There is much rough work which they are capable of doing, but infinitely more important, there is much military work which they are

This is torpedo boat work. Many of the more progressive officers of the service long ago urged that the two qualities should be combined—that the navy should be equipped with boats everyday work of a steam launch in carrying landing parties to and fro. towing and picket duty in any kind should be combined with the offensive about 12 years ago, when the navy are laid? department caused seagoing torpedo boats to be installed on the Maine and PURSUIT OF THE DEVIL FISH. the Texas. It resulted in failure. Not because of there being anything wrong with the theory, but by reason of the fact that boats propelled by steam are too heavy to be hoisted in and out of a battleship; that is, boats which

The fault was, therefore, in the type the advent of the gas engine Mr. Ar. clear field at the first rush.

tages can deny that it is only a ques. by the Irene's own engines.

great power generators. torpedo boats be reduced. The as- tire him. If left to himself he will than excessive speed. Working on such resting that one must work conthese lines, Mr. Chester has prepared stantly by hauling the tow in close to ant enough to stand all of the heavy the point of weakening, then he may

Every battleahip of the United | dowed with a speed of 20 knots or States navy is equipped with a steam | so and yet not so heavy to prevent its launch, but the naval officers have being readily lowered from a battleship or armored cruiser, and as easily

hoisted back on board. Mr. Chester draws a vivid picture of boat has been frequently condemned, what a naval battle might be with one and never so freely as at the time of fleet possessed of a flotilla of small the depiorable tragedy in Hampton torpedo craft, carried on shipboard, Roads during the Jamestown exposi- lowered on the lee side before the betion, when a steam launch of the bat- ginning of the action and held tleship Minnesota drowned her crew screened behind the ships until the smoke of battle afforded an opportunity for a dash.

"France, England and Italy," said Mr. Chester, "have already adopted boats of the character that I have described, and excepting the United carried on deck and be capable of States every country in the world is standing the rough work required of progressing along these lines. Are we to see another era similar to the one passed through in the early eighties, when our navy consisted wholly of wooden ships using steam only as an auxiliary, while all other countries were building vessels of steels? Are we to see England launching vessels propelled by gas producer explosive plants: vessels without smokestacks to interfere with the allaround fire of the guns, to be riddled by the enemy's shell and to belch capable of withstanding the rough forth a signal of smoke that tells the enemy of your presence long before you could be discovered without them; vessels that can cruise three times as of weather, and that these qualities fast as ours on the same amount of coal, while our congress is authorizpowers of a torpedo boat. This effort ing steam-driven men of war that will at combination was actually made be out of date long before their keels

> Sport on the Gulf Entails Muscle-Racking, Hard Work.

The task of hitting a devil fish from possess the speed and power requisite a 14-foot boat was left to the bachelor for torpedo boat work are too heavy to of the party, the married member explaining that he felt his duty to the ones at home excluded him from anyof engine, and not in the idea. The thing that smacked so of suicide. Acvastly increased powers of offense and | cordingly, when near the next fish, the defense which a fleet carrying a skiff put out from the stern of the flotilia of small torpedo craft would Irene, the spearman standing in the possess have long been recognized by bow while the skipper stood the big naval atrategists and tacticians. In boat away so as to give the fish a

thur T. Chester believes that the The plan developed perfectly-the problem has been solved. Son of throw was good, the fish half filled the Rear Admiral Colby M. Chester, an boat with his first splash, and then officer distinguished for his scientific rushed away in a great swinging cirattainments and professional com- cle, so that in 15 minutes it was pospetence, the younger Chester recently sible for the sloop to cut across and resigned his commission as a lieuten- catch up, when by some maneuvering ant in the navy to pursue on inde- it became possible to pass the inboard pendent lines an investigation he had end of the line up to her bowsprit. been unable to conduct while attached After that it was a fight to a finish, with the devil fish on one end of the Mr. Chester long ago saw the pos- line and the ten-ton sloop on the other. sibilities of the explosive engine, par- For a long while it seemed as though ticularly its possibilities when applied the devil fish had the better of it. to naval vessels. In a recent address He towed that big boat steadily out read before the Society of Naval Archi- into the gulf for three hours and tects and Marine Engineers he said twenty minutes. It was exactly like that few of those who have seen the being in tow of a fair-sized tug. The rapid advancement of the explosive progress of the boat was not fast, but engine and studied its many advan- as steady as if it were being driven

tion of time before steam will be sup- It may be fair to remark that killing planted by the gas engine just as the a devil fish entails as much genuine, once universal sail power has been muscle-racking hard work as any task dropped in favor of steam, never again on earth. It is much the same as to be considered one of the world's pulling for hours against a yoke of oxen who are moving off entirely indif-A board on torpedo boats recently ferent to one's futile efforts. The recommended that the speed of all devil fish will not let simple towing sumption is the board had found that sound to bottom, and after resting prostructural strength is more important | ceed on ad infinitum. It is to prevent plans for a yeasel fitted with a light him, thereby frightening him to conbut prewerful gas engine, big and buoy- stant effort. If he can be strained to work that might be required of a be hauled close enough to harpoon launch, equipped with torpedos, en- again.-Scribner's Magazine.

TIME OF SETTING Trimmed Back.

Ideas Differ as to Extent the Roots and Branches Shall Be

HANDLING YOUNG TREES

on the trimming back of trees at way than in any other way. transplanting time. Some object to The second tree is pruned at the top

that its roots may not be injured, velop on the limbs. has plant food stored up in it. They may develop from the stubs. advocate setting out each tree with The fourth system is the form into

In the accompanying illustration, we worked in around the fibrous roots show four methods of handling young sufficiently to leave no air spaces betrees at setting time. Horticulturists low the tree. The careful man will, differ very greatly as to their notions however, get a quicker growth in this

any trimming and some trim off every- to correspond with the loss in volume of roots. It will have to be well set The men that do not trim at all and taken care of to enable its small say that a tree should be taken out of root system to collect enough plant the ground with the greatest of care, food to supply the leaves that will de-

They advocate digging a circular The third tree has about the same litch far from the little tree and grad- amount of roots as the second, but ially working out the roots, so that the branch system has been greatly all the small, fibrous roots may be reduced. This makes it easier for the aved or at least most of them. Then roots to gather enough food to supply hey would save the top because that the requirements of any branches that

FOUR METHODS FOR HANDLING YOUNG TREES.

Showing methods of cutting back trees at planting time. Beginning at left: No. 1., unpruned; No. 2, pruned sufficiently if the tree is well planted in moist ground; No. 3, showing extent of pruning necessary for weakened trees and trees set in dry weather; No. 4, Stringfellow method.

the greatest care, so that the soil may | which a tree is pruned by the so-called be brought at once into contact with Stringfellow method. All the roots all of the fibrous roots. Water is used and all the branches are removed. for working the soil down between the The setting of the tree is reduced to little roots, which should be spread the least possible work. A man goes out in every direction so that they along with a crowbar and jabs a hole may cover the greatest possible area in the earth. Another man follows of feeding ground. That this method with an armful of trees and pushes a gives good results in many cases can tree into each hole. This method is EXCELLENT FOR TIRED NERVES. not be denied, but it requires extraor- found to be serviceable in many parts dinary care in digging, and setting of the south, where an abundant sunthe trees. The nurseryman that sells shine and moisture hasten growth. It his trees at little price cannot afford is also more adapted to fast growing to spend on digging each tree the trees, like the peach, than to any amount of time this would require. other kind. In the colder parts of the On the part of the tree setter, it is country, where growth is slow, it has bing of the body daily. exceedingly difficult to get the soil not proved very satisfactory.

FUNGUS OF

The Cordyceps melolonthae is a parasitic fungus which has on a few occasions been of great use in wiping out severe attacks of the injurious white



Grub with Fungus Growth.

the grub. Sometimes instead of these animals.

club-like bodies the whole caterpillar hand, with a Turkish towel, or with allow the flowers to spread gracefully is covered with a white mouldy growth which is spoken of as the CATERPILLAR growth which is spoken of as the Isarfa form. This is the first form of directly after the bath. Any part of cut-glass or rock crystal, but those of the fungus and the club-shaped or the body that cannot be reached by the colonial glass, either plain or with a Cordyceps form, which does not all hand should be rubbed vigorously by gilt rim, are lovely and quite inexways appear, is the second fruiting the towel or flannel held at arm's pensive. stage. Both forms give off spores from | length very taut. which infection may take place. There are three or four of these fungi at any rate which attack many kinds of insects. Plant lice are particularly susceptible to the attacks of some of these fungi. The common house fly is another frequent victim and speci-

mens in large numbers may every autumn be seen clinging to ceilings or walls surrounded by a circular cloud of spores. Wireworms are also much attacked by one species of Cordyceps. Indeed the greatest help farmers have in fighting against white grubs and wireworms comes from fungi of the genus Cordyceps. For almost all of the worst injurious insects there are some remedies which will, at any rate, mitigate the attack, but with these troublesome grubs very little can be done.

By Howard H. Gross, Chicago.

For a hundred years throughout the now be permanently improved with stone or gravel.

waste-revise the highway laws, provide for skilled supervision, centralize "Yes, said the landlord. The ghost. grubs. From the bodies of the dead authority, tax every dollar of property stroyed in a year. When the spores public property and it is up to the pub-

The state aid plan has already been

HEALTH EXERCISES



Home exercise is within the finan-, face of the body are affected and the cial reach of all, and if only a few parts acted on are strengthened. minutes each day are devoted to it. not only health, but a symmetrical exercise, weights held in the uplifted form will be the result.

In the exercises given there is no special preparation to be made, exworn to have it short.

The exercise should be indulged in ward insomnia one will find the movements conducive to sound and refresh-

The position for beginning the first exercise pictured is, one leg kneeling, the other arm rests at the side. while the other leg is extended for- In the above position begin action

arms, which must be kept parallel Repeat this action four or five times to with the head and trunk, as far back- begin with, increasing it in later exerward as possible.

Hold this backward position a few

This action may be repeated four or domen and the whole interior sur- hip.

Recommended.

long strips of flannel.

glass of hot milk.

BORROWED FROM THE PAST.

If you should desire a more vigorous

hands will give it.

The second action is one which should be faithfully practiced by every cept to remove all tight-fitting cloth- woman who has a tendency to stouting; it would be practical if a skirt is ness about the waist. While this movement calls into powerful action all the muscles of the sides, it strengthens after one has disrobed preparatory to the chest and abdomen, and as a waist retiring. If there is a tendency to- reducer there never was a better one.

The position is a standing one with one leg in advance of the other, in walking position; one arm is in "stretch" over head while the hand of

ward, with the foot resting flat upon by slowly twisting the trunk toward the floor, the trunk to occupy the erect | the right side as illustrated. After hav- | meet a friend of mine," said McVeigh. position, and the arms stretched up- ing twisted the trunk well around, bend sidewise at right angles with the Begin the action by bending the trunk-as far as possible, then slowly trunk slowly backward, carry the assume an upright and front position. cises.

After having exercised as above deseconds and then slowly resume the scribed, reverse position of arms and legs and repeat exercise.

If one is exceedingly stout or stiff, six times, then reverse the position of more energy may be given by placing the legs and repeat the above action. | the hand on the hip of the advanced The effect of this action is far-reach- leg-thus more force is given to the ing, for the lower portion of the ab- bending with the hand resting on the

PRETTIER THAN FERN DISHES. Vigorous Rubbing of Body After Bath Glass Baskets Make Most Effective Table Decorations.

There is no greater sedative to the Nothing makes a prettier table nerves than to indulge in vigorous rub- decoration than to own five of the glass baskets with handles that can Of course, it is luxurious to afford a be found now quite reasonably in the masseuse, but it is almost as beneficial stores.

if one will rub oneself, either with the | The broad mouths of these baskets and without stiffness

One woman whose nerves had gone for these baskets for the winter they back on her badly cured herself in a might be planted with Wandering Jew or nasturtiums or some of the aquatic warm bath, followed by a cold rinse plants, like parrots feather or water and vigorous rubbing of herself with hyacinth. These grow in water, trail a rubber flesh brush and a crash towel. over the sides or else stand above the She followed her exercising with a surface, thus giving a dainty bit of green through several months that is more novel than the omnipresent fern

dish. The water, of course, must be filled up as it evaporates and should have pieces of charcoal in it to keep it from getting stagnant.

Turban Effects Popular in Paris. Turban effects are well considered in Paris. This was launched in midwinter by a Russian grand duchess, but as the Russian turban looks best | Algernon West. in fur, the Spanish turban is being launched as the spring favorite. This is of large size for a turban, and is lifted by a bandeau slightly at the left side. The turban will undoubtedly be accepted in this country this spring, but not to the extent the postillion and ailied shapes will be.

Embroidered Flounces.

Robes and box-suits in cottons, batistes, linens and other such fabrics promise that skirts belonging to them are to have one embroidered bottom flounce, with a series of narrow edge embroidered ruffles, clustered in rows two gold bands passed round the hair, above, as a heading, while bodice and half-sleeves show the same ruffles or trimming.-Vogue.

Inexpensive Band. A new hat for a child of ten is vivid pinks and rose reds as modish shown simply trimmed with a deep colors in fashion centers, yet it is a band of wide ribbon on which are apfact that much of these shades is pliqued several large roses cut from

This is a very simple idea and one easily carried out, and if it can be worn by the children there is no reaand a trim tailored-looking waist will en should not be adorned in the same

A Tucked Sleeve.

One gets rather weary of the ever lasting sleeve formed of big, careless tucks caught up one over the other from elbow to shoulder; but a newer idea is seen in the tucked sleeve that is treated perpendicularly, not bortzontally!-and the tucks are just as big and careless and loose, and taper off right up into the neckband, the rest of the blouse-the bodice part of it-overhanging a consolet skirt or one

Yield of One Rubber Tree. A rubber tree four feet in diameter yields 20 gallons of sap, making 49

pounds of dry india rubber.

Truth and Quality

appeal to the Well-Informed in every walk of life and are essential to permanent success and creditable standing. Accoringly, it is not claimed that Syrup of Figs and Elixir of Senna is the only remedy of known value, but one of many reasons why it is the best of personal and family laxatives is the fact that it cleanses, sweetens and relieves the internal organs on which it acts without any debilitating after effects and without having to increase the quantity from time to time.

It acts pleasantly and naturally and truly as a laxative, and its component parts are known to and approved by physicians, as it is free from all objectionable substances. To get its beneficial effects always purchase the genuinemanufactured by the California Fig Syrup Co., only, and for sale by all leading drug-

Putting It Concretely.

Although Mr. Lawton was wont to indulge in a sort of language which left his hearers in some doubt as to his exact meaning, yet when he was "put to it" he never failed to make himself understood.

"No, I shouldn't want to live in a house like Philander's," he announced to Mrs. Lawton on the evening of his return from a visit to a nephew. "His cellar, now-it's most desperately overflowed whenever the weather is anyways damp."

"Just what do you mean by desperately overflowed?" asked Mrs. Law-

"I mean," said her husband, mildly "that all they had to do was to open the door that led from the kitchen down cellar, and the apples come floating right in on to the kitchen floor. Is that plain to ye?"-Youth's

Recommended His Wife. Irvin Cobb, humorist of New York, was recommended to a lecture management. The latter sought an introduction through a friend, Mr. McVeigh,

"Come here, Irvin, I want you to After a few minutes' conversation, the lecture man broached the subject of lecturing as follows:

"I was just wondering, Mr. Cobb, what you would think of a proposition to do some lecture work next sea-

Cobb looked at his questioner for just a moment in blank amazement. Evidently such a thought had never entered his head before. Then reaching out his hand confidentially, he

"I've got it. My wife will do it. She is the best one I know."-Lyceum and



Younger-I wonder if I shall lose my looks, too, when I am your age? Elder-You'll be lucky if you do.

Too Free Speech.

The allegations made during a trial for "blasphemy" raises the whole question of courtesy and kindliness in public discussion. Ridicule and sarcasm are permissible, and effective weapons in debate, but mere vulgarity and abuse or irreverence in dealing with subjects that are sacred to others, are not to be confounded with free speech and cannot be tolerated.-Lloyd's (Eng.) News.

Gladstone's Thrift.

Gladstone's liberality . . . was very great, and was curiously accompanied by his love of small economies -his determination to have the proper discount taken off the price of his second-hand books, his horror of a wasted half sheet of note paper, which almost equaled his detestation of a wasted minute.-Recollections of Sir

Those Peekaboos.

She-Women's clothes are a mystery to men, aren't they? He-Oh, I don't know. I can often see through them .- Cornell Widow.

Buying Medicine When Right Food Was Needed.

Money spent for "tonics" and "bracers" to relieve indigestion, while the noor old stomach is loaded with pastry and pork, is worse than losing a pocketbook containing the money.

If the money only is lost it's had enough, but with lost health from wrong eating, it is hard to make the money back. A Mich. young lady lost money on

drugs but is thankful she found a way to get back her health by proper food. She writes:

"I had been a victim of nervous dyspepsia for six years and spent three hundred dollars for treatment in the attempt to get well. None of it did me any good.

"Finally I tried Grape-Nuts food and the results were such that, if it cost a dollar a package. I would not be without it. My trouble had been caused by eating rich food such as pastry and pork.

"The most wonderful thing that ever happened to me, I am sure, was the change in my condition after I began to out Grape-Nuts. I began to improve at once and the first week gained four pounds.

"I feel that I cannot express myself in terms that are worthy of the benefit Grape-Nuts has brought to me, and you are perfectly free to publish this better if it will send some poor sufferer relief, such as has come \$0. BM."

Name given by Postum Co., Estate Creek, Mich. Need, "The Boad to Wellville," in place "There's a Reason."

MAN'S PLACE IN THE WORLD

filled," a reporter said to Heinrich less, said the landlord reassuringly. Controld, the retiring director of the Matropolitan opera house of New

amilled.

ghost in Helitz, my native Bielitz, I without him." will tell you of him "The ghost haunted the inn. Nobody minded him, for in Silesia he was well known; but an Englishman

bloodshot and irritable.

my room haunted?" Why, yes, said the landlord. Didn't you know?"

stormed.

Your place, sir, will never be "But the old fellow is quite harm-"The old fellow?"

The old fellow who built up the busi- grubs spores are given off in enormous in the state for permanent road im-Mr. Contold shook his head and ness. He built it up, you know, and died, and now he can't rest easy be-"There was a ghost," he said, "a cause it goes on as well as ever it did

The Good Old Days. The richest man in King Charles II,'s England could not get so good was well known; but an Englishman at a dinner as tens of thousands will sit down to to-day. Cattle were of a far poorer breed, vegetables were few and to him the ghost had not been evulated. the next morning the English of the table were unknown. Fish man came down to his breakfast pale, knives, for instance, are hardly considered an extravagant luxury, but Mr. Landlord, he said, tell me, is not Gladstone could remember when they were not to be found on any table.

Useful Motor Vehicle. Of course, I did not know! What A motor vehicle purchased by the do you mean, sir, by putting me in a town of Tynemouth, England, can be haunted room?" the Englishman used as a prison van, fire apparatus or ambulance

numbers which infest other grubs so provements, do not expect the farmer that thousands of larvae may be de to do all the paying. The roads are fall on a caterpillar or grub they throw | lic-everybody-to chip in. out germ threads which penetrate crease very rapidly indeed, and soon handling the subject. and then dies, finally becoming a dried best results should be our study. It storehouse filled with resting spores does not contain all the elements, or of the fungus, which may remain in those elements in right proportion to the ground unchanged for many produce best growth in animals. It months. Under favorable conditions, contains too much of the fat-forming however, one or sometimes two of the properties and too little of protein or lorg club-shaped or stick-like bodies the property that goes to make up the

UNFAIR TAXATION

Mississippi valley the farmers have carried the burden of highway improvement. They have paid for the bridges and they have worked the roads. Hundreds of millions have been spent and the roads are not much better than they were to begin with; where they are better is because of draining. It requires engineering skill and experience to make a road: these have not been employed and the result has been a failure. If the money expended had been used to the best advantage fully half the roads would

The first great need is to stop the

through the skin of the caterpillar, adopted by 15 states; it works to the and then form another kind of spores satisfaction of everybody and seems inside the body of their host, which in- to be the only successful way of Feeding Corn.-How to use corn for

up hard mummy, which is really a is a well-known fact that corn of itself otten several inches long are produced, solid fiesh-the lean meat, tendons of generally from beneath the neck of the nerves, etc., and the growth of the

Antique Greek coiffure composed of with a loose cluster of curls at the Pink and Red Poplin.

One doesn't hear very much about worn. Not as whole costumes, of cretonne and fastened on with an course, but as wings adorning tiny cutline of gold thread.

deep watermelon pink. A coat loosened down the front reveals a dainty searf in flamingo tones, son why walking hats for wombe finished with a turnover collar em. . way. breidered in pink, the bow matching.

Fruits and Berries for Hat Buvers.

fur hats, or a black suit touched with

Fruits of all kinds, and berries in particular (artificial), are shown in tempting bunches for hat ornaments. as they are at the beginning of each spring season, but they are a passing fancy, and by no means so elegant as flowers.

Danger in Timber-Laden Vessels. Timber-laden vessels may become waterlogged and refuse to sink. Such of the prevailing cummerband belts. vessels, their masts gone and their decks awash, may drift for weeks and so furnish another danger for ships; for one of thom, in the track of an oncoming ship may wreck it.