# HOW WARSHIPS ARE TESTED.

## Miniature Basin in Which the Models rush about anything, because the fa-Are Practiced.

Hichborn, chief of the construction advance of actual test after the ship bureau of the navy, has been endeavoring to secure the building of an ex- it is too late for alteration. perimental naval basin. He was sent abroad by Secretary Chandler as far back as 1884, to see what improvements had been devised in ship building by other countries, and came back | the tank is to be placed a powerful with the idea for this in his brain. But it was not until towards the close of the fifty-fourth congress that he was able to secure an appropriation of the necessary \$150,000 to put his plans into operation. The need of such tanks has been recognized for a still longer time, but the governments fan, which can get up a very good imihave hesitated to go into it sufficiently tation of a gale of wind, to attain the best results. Mr. William Denny, the most progressive of the Scotch builders, and the owner of the recently in discussing the question: "Of all the problems about a steamship the only ones incapable of being solved at the present moment by a priori enable even the most skillful architect to overcome the want of an experimental tank in coping with these two imum result of speed, of carrying powmay be desired—that the United enormous basin. The basin was authorized by congress two years ago, which extends like

a bridge over the tank from side to side. When the great weight of the vehicle, twenty-five tons, is taken into consideration, well as the rapidity with which it moves and the perfect control under which it operates at all times, it will be easily understood that the whole process of operation is little short of marvelous, In fact the motor carriage of the model basis is a mechanical wonder and a thing almost entirely unique. On it is a complicated piece of machinery, worked by the Ward - Leonard system of electrical control, capable of driving the carriage along at twenty - five miles an hour, within 200 feet of the starting place. Hung to this bridge carriage by means of a dy-

namometer, will be mometer will register the resistence of thought best, and then tried again and get adjusted to each other, and the again until the very best shape for the | machinery, so to speak, "finds" itself, purpose intended is resolved upon.

When one is finally adopted, the reand from this it will be very simple to | men in charge say, will soon wear off. calculate the exact power of the engines required to give the ship, when built, the greatest speed. Hereafter there will be no danger that the engines will be found too weak, thus losing speed, or too heavy and strong, thus losing weight, that might be better devoted to some other part of the vessel.

There is one special advantage in the high speed which can be attained in the tank which a layman will necessarily overlook. It results from the tendency of a ship to bore downwards in the water. The faster she goes the deeper she will bore, the more of her will be submerged and large will be the displacement. For instance the coast defense vessel Monterey, when running at full speed, plunges her entire body under water, thus offering a much greater surface to the water and increasing the resistence to her passage. It is evident that portions of the bow which are well out of the water at ten knots-the maximum speed attainable in any of the European tanks-will be submerged entirely at twenty knots, and that as much care fer the least resistance of the upper every other kind of occupation.

For over fifteen years Admiral | ascertain the best shape for them in has been completed, when, of course,

Objections may be made that the tank offers, after all, only smooth water facilities, and will not give evidence as to work in a sea way. At one end of propeller, which will send waves to meet the model quite as strongly proportionately to the size as are likely to be encountered by the ship in the upen sea. Further, in one corner of the building which incloses the entire tank will be placed a powerful electric

All these points were worked out very carefully by Naval Constructor David W. Taylor before the building only private basin in the world, said of the plant was begun, and there was theoretically no doubt that all would work correctly, Still, careful tests were determined upon to show that these calculations were accurate. In method are those relating to speed and other words, to make everything perpower. No ability and no training will feetly safe, the "sum" had to be "proved."

For this purpose, models have been or are being constructed of the Iowa, questions." It is to find out this ideal the Brooklyn, the Raleigh, and other hull-the one that will attain the max- vessels at present in existence. Abundant records, of course, exist as to the er, or of whatever other quality that speed of these actual vessels in all sorts of weather and under all condi-States has erected, after many years | tions. If, when their models are tested of solicitation on the part of the bu- in the tank, they should give results reau of construction and repair, this which, when worked out, should agree with the results in actual practice, it would be proof that other ships built and already partial experiments have on models obtained in the tank would been begun to determine the best also give the expected results. If, on shapes for the hulls of the new war- the other hand, it were found that the and said he did not believe in using custom for keeping his shirts so that ships authorized last March. The tank results were somewhat different, they any foreign language in speaking to one could not be worn oftener than an-

responsibilities. There was seldom a rush about anything, because the faous as they are today. There was no railroads when I was a boy, no telegraph, no telephone, no six-day ocean steamers. Everything necessarily was on a slower scale. Men's nerves were not constantly straining, and the anxieties of a week were not so great as the anxieties of a day are now. This was true also of the professions. The clergyman had to preach twice on Sunday, but the kind of sermon that was expected of him did not involve close study of contemporary affairs. During the week he did practically as he liked. The clergyman today has innumerable demands on his time and energy, with all kinds of charitable and philanthropic and quasi-clerical projects and organizations. He must be a man of active affairs. Sixty years ago the lawyers had an infinitely narrower field. People went to law about a strip of land or a title to a piece of property. Today the lawyers handle cases involving the most intricate commercial complications and engage in the settlement of disputes over millions of dollars. There were no patent cases half a century ago, and today there are thousands, and the lawyers who handle them must be good mechanics as well as learned in the law. So it is true of every profession and almost every occupation today. A man works harder and longer, and has greater anxiety and heavier responsibility. I believe that vacations save many lives. They are very necessary, because the life that we lead drains the system of its strength, and the mechanic must stop for rest and repair

NIPPONISM IN JAPAN.

or break down."

It Is a Drawing Pack Into the National Shell

concert: "Rats!" Fairchild paused for a moment, and then waving his hand at the gallery said: "Waiter, come down and take the Chinamen's orders!" The effect was electrical, Ne r.ska's First Will Come Home at The speaker in relating the incident to the writer said: "You should have seen that black hillside of faces sloping Savenward break into ledges of THE MONEY HAS BEEN PROVIDED.

DEWEY'S SHIRT SYLTEM.

Scheme to Give Each Garmes t the Same Amount of Wear.

There resides in Washington at the present time a man who has known most friendly and social intercourse. There is little difference between the Dewey of today and the Dewey of 25 years ago. Dewey was as popular an a desired guest at banquets. He was a splendid messmate, full of manly sentiment, and ever ready to lend the chorus. One trait that always attracted the attention of the acquainttremely neat appearance. He dressed in the morning with a strict regard for the demands of a professional man, and when he left his apartments for the club in the evening his outfit could be used as a model for a society man. His figure is rather below medium height, but trim and well knit. From the conservatively shaped hat to the round-toed shoes he wore, everything bore the earmarks of gentility and refinement. He was fastidious about every feature of his dress, and always had his shoes made on the sameshaped last. The care he observed in ment of his wardrobe. Everything had its place, and he knew exactly where to find a handkerchief, a shirt or col-A Japanese boy, a middle-school stu- lar. In fact, he might be called a crank dent, came into my study the other day on the subject, having invented an odd

Admiral Dewey for the past thirty years, during which time their acquaintance has been marked by the In speaking of the true character of the famous naval hero this friend said: officer as could be found in the navy. and during our cruises he was always melody of his sweet tenor voice in a ance of Admiral Dewey was his exhis dress was followed in the arrange-

the citizens of Nebraska for their prompt action and the splendid manner in which they have upheld the good name of the state. I wish to return in this public manner my sincere thanks to Hon. D. E. Thompson of Lincoln, who came to the rescue when the cause had become hopeless, and showed his splendid faith in Nebraska and her people by a pledge of \$20,000. I would be glad to thank and congratulate each one of the long list of donors whose pledges range from \$1 to \$3,000, but the list is too long. Suffice it to say the demonstration is complete and Nebraska shows she is proud of her spiendid regiment. W. A. POYNTER, Governor."

Governor Poynter awarded the contract for transporting the troops to the Burlington railroad. In deciding between the roads he was influenced by the fact that that road can carry all but two of the twelve companies to their original camp headquarters. The Madison and Fullerton companies will be taken to Columbus, only twenty-five miles from their home station.

State Expense.

Gov. Poynter Gives the Burlington Road

Leave San Francisco on the 26th-

Congressman Stark and Adjutant Gen-

LINCOLN, Neb., Aug. 22.-Governor

"Citizens of Nebrask 1-! am glad to

announce to the patrious citizens of

Nebraska that the money for special

train to bring home her gallant First

Nebraska regiment has all been sent

in. Nebraska will bring her boys nome

in a manner befitting her high appre-

ciation of their worth and the honor

they have conferred upon their state.

Arrangements will be made for special

trains to leave San Francisco next Sat-

urday morning. Each company will

be returned direct to their home sta-

tion. I have sent Adjutant General

Barry and Hon. W. L. Stark to San

Francisco to attend to the business in-

terests of the state in the contract, with

"I desire to thank and congratulate

the transportation companies.

Poynter last night issued the following

eral Barry Leave for the West.

sta tement:

By 9 o'clock last evening the money received amounted to \$36,756. This includes all contributions received up to that time. There are still many subscriptions that have not been paid in and it is thought that the total amount will reach nearly \$40,000.

D. E. Thompson was asked by Governor Poynter to accompany Colonel Stark and Adjutant General Barry to the coast to meet the regiment, but he decided that the public might misconstrue his motives if he accepted the invitation.

A message was sent to General Shafter asking that the regiment be mustered out Friday so that the soldiers can start Saturady morning. The different railroads over which they will travel have also been notified to have the necessary cars at San Francisco by that time

Governor Poynter and the entire clerical force of the executive office were kept busy receiving subscriptions and money from all sections of the state and telegrams kept pouring in since Sunday morning announcing other subscriptions which would follow. The appeal of the governor has met with a noble and patriotic response from all sections and if all the money that is already subscribed is sent in to the governor's office the amount will exceed the necessary cost of transportation by several thousand

Numerous subscriptions, ranging in amount from \$100 to over \$1,000, have been received from mayors over the state and banks almost without number have notified the governor to draw on them for stated amounts, some of these being their own contributions and others for individual depositors.

It had been hoped by Governor Poynter and others interested in the project to bring the boys home, that the railroads might be induced to offer a reduced rate. In this respect all attempts resulted unsuccessfully, as the three Nebraska lines connecting with the Rio Grande at Denver combined and offer a similar rate.

TROOPS ARE RUSHED TO FRONT.

New Policy of Celerity is Innugurated

by Secretary Root. WASHINGTON, Aug. 22.-Orders were issued yesterday directing the movement of the Twenty-sixth infantry from Plattsburg, N. Y., to San Francisco. The regiment will go via

Boston and Providence. The quartermaster's department acting under instructions from Secretary Root, is negotiating for more transports for the Philippine service. Owing to the determination of Secretary Root to rush the troops forward. the original schedule prepared in the quartermaster's department has been entirely disarranged, and it is the department's intention to have not only the first ten regiments affoat by the last of October, but also those to be

Nine Soldiers Are Drowned.

raised under the last order.

MANILA, Aug. 22.—While a reconnoitering party of the Twenty-fourth infantry, under Captain Crane, was crossing the Mariquina river on a raft today the hawser broke. The current, very swift at that point, caused the raft to capsize, drowning nine enlisted

men. The United States transport Tartar, from San Francisco, July 24, with General Joseph Wheeler and his daughter, troops of the Nineteenth infantry and more than \$1,300,000 in coin, has ar-

A NEBRASKA CATTIEMAN KILLED

Quarrel Gver Pasturage Righ's Result in Cold-Blooded Murder.

CHADRON, Neb., Aug. 22.-Thomas Ryan, a prominent cattleman, was shot and instantly killed by Frank Coil a young sheepman, fifteen miles

southeast of this city. This disastrous affair is the direct result of a feud that has always existed between the cattlemen, who claim priority of right on pasturage lands, and the sheepmen, who have inthe Job of Hauling the Soldiers-Will sisted that they were equally entitled to the general use of the land for the grazing of their sheep.

From reports coming in from the scene of the murder, it is learned that Ryan was the aggressor and insisted that young Coil, who is but 21 years old, should move his sheep from where they were then grazing. This Coll refused to do. Hot words were exchanged, when suddenly, without a word of warning, young Coll whipped out a revolver and taking deliberate aim, shot Ryan, killing him almost instantly. Friends of Ryan soon notified the coroner, but up to a late hour he had not returned from the scene of the tragedy.

Coll immediately came to this city and gave himself up. When questioned he seemed greatly excited and nothing authentic could be learned from him. The cold-blooded murder of Eckman, who was shot down by cattlemen several months ago, is still fresh in the minds of every one. In view of the intense feeling prevailing between the two factions, the outcome of the murder of Ryan will be watched with unusual interest.

The prediction is made that more blood is likely to flow, unless some more definite agreement can be satisfactorily agreed on to govern the rights of the cattle and sheepmen, who are constantly warring with each other over pasturage lands.

#### GERMAN MINISTRY RESIGNS.

Defeat of the Kaiser's Pet Measure in Diet May Change Government.

BERLIN, Aug. 22.-During the aftrnoon a cabinet meeting was held at the residence of Prince Hohenlohe, the imperial chancellor and the whole cabinet agreed to resign. The acceptance of the ministers' resignations is uncertain.

The newspapers of this city recognize the fact that the rejection by the Diet of the canal bill marks an epoch in political history of the country and point out that the conservatives, for the first time since the formation of the empire, have openly defied a man-

date of their sovereign. The question of the dissolution of the Diet as a result of the defeat of the canal bill is much talked about, but such a step is not likely until the upper house has approved the new civil code. Opinion is much divided as to what Emperor William may do in the matter, many persons believing that the ministry's resignation will be accepted. In any case, it is asserted, the government will have to encounter in the next elections a great moral force, the conservative junkers having hitherto been invariably on its side,

## DEAD BODIES FOUND AT PONCE.

Twenty-Five Hundred Lives Lost in

West Indian Hurrleane. PONCE, P. R., Aug. 22.-It is now estimated that 2,500 bodies of the victims of the recent hurricane have been buried, that over 1,000 were injured in the storm, and that 2,000 are missing

There are opportunities here for investors. There is the greatest lack of money for repairing damage, replacing and replenishing stocks. The alcaldes appointed committees for the distribution of relief stores, etc., but the military authorities objected to it.

Ponce is health, though bodies continue to be found in the fields. The authorities have decided to burn the ruins of Yabuco.

Troops for Fort Crook. WASHINGTON, Aug. 22.-Adjutant General Corbin cabled General Brooke the substance of an order recalling four companies of the Tenth infantry from Cuba and sending them to Fort Crook, Neb. What companies General Brooke will select for transportation to the United States is problematical, the officials at the war department contenting themselves with the assertion that it will be the battalion having seen the most service in Matanzas

or Cardenas. Company D of the Seventh infantry, now at Fort Crook, will in all probability remain at that post for some time, although it is on the cards to send the Seventh infantry to the Philippines some time during the fall.

Directors of Cuban Census.

WASHINGTON, Aug. 22.-Secretary Root has signed the order for the Cuban census. The order appoints Lieutenant Colonel Joseph B. Sanger director of the census, and Victor H. Olmsted assistant director. It was at first intended that Mr. Olmsted should be director and Colonel Sanger superintendent for the war department. The change places the direction of the census more emphatically under the control of the war department. census is to be completed by or before November 30.

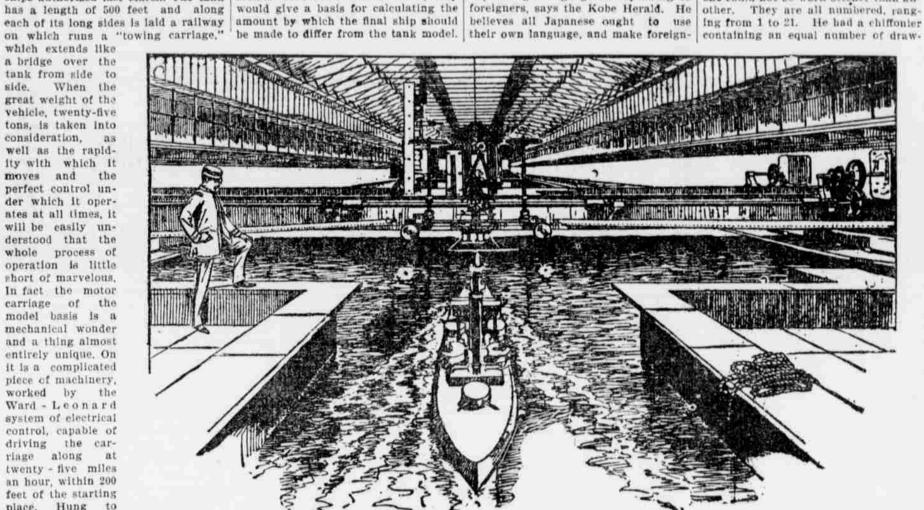
Attack American Sallors.

LONDON, Aug. 22.-A special dispatch received here today from Leghorn. Italy, says five men have been arrested there on the charge of attacking and wounding some sailors who had come ashore from the United States cruiser Olympia.

Utterly Wiped Out by Fire.

CRIPPLE CREEK, Colo., Aug. 22 .-Fire has utterly destroyed the busir.ess postion of the city of Victor, causing a loss estimated at \$2,000,000. Beginning shortly after noon, the fire raged until evening, consuming everything in its way.

It had its origin, it is thought in the Merchants' cafe, adjoining the Bank of Victor, on the corner of Third street and Victor avenue. A strong wind from the south fanned the flames and in a few minutes all the surrounding house were afire.



the speeds will be increased till they reach the maximum. At present every-

#### HALF A CENTURY AGO. Why People Didn't Need Vacations in Those Days.

George S. Boutwell, ex-governor and ex-senator, writes to the Boston Globe: There is very good reason why people need more vacation now than in the past. Today the hours of labor for the average mechanic may be very much less than formerly, but the kind of labor that he performs is greatly more exacting and wearing than the work of a mechanic was 50 years ago. A man laboring in a shop or a factory or on the farm today must do everything with great care and skill. If he works only eight hours a day the it demands an expenditure of considerable intellectual effort. When I was a boy, a farm hand, for example, went about his tasks leisurely, stopped to talk and to rest frequently during the day, and insisted on an occasional draft of rum. His hours of labor may have been from sun up to sun down, but his actual time of labor was much less than that of a farm hand today. should be taken to design so as to of- Fifty years ago it was the same in portion to the water as is taken with | mechanic went about his work withthe lower portions, which are always out any sense of hurry. Nobody seemsubmerged. Yet never in the history | ed to hurry in those days. The busi-

Naturally, Mr. Taylor felt more or ers learn to speak in Japanese. This ers, just wide enough to receive a shirt, models which it is designed to less anxiety in regard to the first ex- was so unique and refreshing, coming He begins at the top and wears the test, each loaded so as to float the periment. This was made with a from a student, that I was in a quan-shirt in drawer No. 1, then the garexact proportionate depth designed twenty-foot wooden model of the Iowa, dary for a moment, not knowing how ment in drawer No. 2, and so on down for the ship. As the carriage sweeps double the length of any model used to take it. But he informed me that along towing the model, the dyna- abroad. So far, this has been tested at be was a Nippon Shugi man, and that various speed up to twelve knots, and was the way to preserve national inthe water to that particular form of the results have been practically iden- stitutions. There is a growing dread bow at each speed from one knot an tical with those shown by the Iowa's among a large class of Japanese that hour up to thirty. If it is found that log books. In a few days experiments the national institutions are in danger the resistence is greater than it should will be made at greater speeds. At of being swallowed up in the hurried be, the model will be taken back to present the machinery is so new that Europeanizing of things; hence the the carpentering establishment and it is not thought prudent to use too spread of Nipponism, the drawing back trimmed down or built out, as may be great velocity. As the various parts into a national shell. The national spirit will be lost if too much leaning toward foreign things is allowed, hence the absence of any English on the recent issue of postage stamps. The May sistence of the water to its progress at thing is rough and discordant, and number of the Talyo has not one word bronze. The original cast was then various speeds will be carefully noted, makes a great deal of noise. This, the of English in it-not even The Sun on the title page. No more English contents, no English names under the pictures. Nipponism has gone mad,

## Silencing an Audience.

A clever bit of campaign repartee is accredited to Lee Fairchild, the California orator who leaped into national repute in 1869. He was sent into a Southern state to advocate the gold standard. At a certain place he was informed by the committee that the "rally" would begin and end about the same time, and that not since 1883 had any republican speaker been permitted to finish a speech there. Upon learning that the speakers as a rule had been able to get out of the town and fill their next appointments, Fairwork is steady and uninterrupted and | child determined to make the attempt as billed. He advised the chairman to have no music and to introduce him by saying to the audience: "You are the people and here is the speaker." The chairman followed instructions a little too literally. He simply pointed at the audience and then at the speaker and disappeared behind the scenes. Fairchild began his speech at once with one of his famous stories. The audience was separated, the colored folk all being in the gallery, and only white people below. In about five minutes the speaker made a pointed thrust at the opponent party, when of the world has it been possible to ness man had fewer cares and lighter an organized body of young men in make excellent iron holders.

the line. He is just as particular about other parts of his wardrobe, also,"-Brooklyn Eagle.

Napoleon's Death Mask. On March 4, 1821, the day after the

great Napoleon died, Automarchi, his physician, took a plaster cast of his face, and for this death mask he was soon afterward offered £6,000 by a wealthy London collector of curiosities. He refused the offer and retained the mask in his possession until he had secured a perfect copy of it in offered for sale in London, the price asked being first £6,000, and afterwards £5,000. No purchaser, however, appeared, and the same was the case in Brussels, where the price asked was 100,000 francs. The bronze mask had meanwhile become the property of the society entitled the Sons of Glory, all of whom were at one time officers of the grand army. Whenever a member of the society died the mask was placed on his coffin during the funeral services. After the death of the last member the mask passed into the possession of Miss Forty, an English lady. She has just died, and at the sale of her effects the once famous mask fetched a comparatively small sum-ridiculously small, indeed, when compared with the sum which was once offered to Automarchi.

Another Blue Grotto. The famous Blue grotto of Capri has now a rival in the state of Minnesota. It occurs in a lake on the shores of which there is a cavern of white limestone flooded with water. A swimmer enters the cave, and, turning to look upward, sees the most beautiful shades of green and blue in the water and a slivery sheen over his submerged limbs.

Iron Holder. Tops of worn-out boots or shoes