## MERICA for two centuries has led the world in naval progress, the novel products of Yankee ingenuity devised to meet the diverse conditions of the nation's rapid advancement having continually forced the other maritime powers to modify their systems of navigable offense and defense in accordance with the lines adopted on this side of the Atlantic. The revolving turret of the original monitor which displaced the broadside batteries of every battle-line ship on the globe was only one conspicuous instance of the permanence of the American idea which has been manifested in armor protection, rapid-fire guns, ram bows, twin and triple screws, straight water-tube boilers, mobile tor pedoes, submarine boats, fire proofing and hundreds of other devices evolved from the practical experience and farsightedness of American naval officers.

The Navy Department has just been enriched by a series of handsome paintings, prepared under the direction of Admiral Hichborn and mounted in the arche above the doors and windows of the chief constructor's office, depicting the evolution and apothesis of what must be called the national naval architecture of this country from its earliest modest beginnings to its very latest triumphs, presenting chronogically and artistically an accurate representative of each famous

Beginning with the historic fleet of Columbus-the Santa Maria, Nina and Pinta -the first vessels with the exception of the semi-mythical Norse boats that crossed the ocean and floated in our waters, were great ships in their day, the largest the largest of the discoverer's fleet, was

and which involved the principles under- is 175 feet long, 45 feet wide and when lying the existing navy of the United ready for sea drew 20 feet of water with until February, 1896. She is 251 feet long. States, it will be seen that while they 2200 tons displacement. No American needs to be told her history, which, as U.S.S. CONSTITUTION. 1797 of them is a mere cockle shell alongside Secretary Long has recently said, is the of the modern cruiser. The Santa Maria, cornerstone of our naval glory. From the days of the Constitution and

Island navy yard in 1895, and is 110 feet long, twenty-five feet wide and at ten feet draft displaces 345 tons.

The final painting of the series, representing the culmination of sea power progress shows the first-class seagoing battleship of the Pennsylvania class for which designs have just been completed, and the new Maine with the torpedo boat destroyer Farragut. The Pennsylvania class will be of 16,000 tons displacement, or more than seven times that of the Constitution, and a speed of nineteen knots per hour. Their principal dimensions are: Length, load water line, 435 feet, beam seventy-six feet and draft twenty-four feet. The Maine, Missouri and Ohio are being constructed from identical plans, respectively at Philadelphia, Newport News and San Francisco. They are each 388 feet long, seventy-two feet two and a half inches wide and have 12,300 tons displacement. The Farragut was commissioned just about a year ago on the Pacific Coast, having been built at the Union Iron Works, to whose skill the triumphs of the Oregon was attributable. She is 213 feet 6 inches long, twenty feet seven and three-quarter inches wide and at six feet draft displaces 279 tons. She is the fastest vessel in the navy, her trial record having been 30.13 knots with 5600 horsepower.

The paintings are from the brush of Frank Muller, who was born at Veile, Denmark, forty-one years ago, and who studied under Karl Neumann in the Royal Academy of Arts at Copenhagen. Muller's father was a Danish artist and he is a nephew of Anton Melby, whose "Eddyforty-three feet five inches wide, twenty- stone Light" and other notable marines one feet deep and at a 15-foot draft dis- are in the national gallery at London. places 2155 tons. Her turtle-back deck Neumann's best known work is perhaps rises only six feet out of water and is that of "Clearing the Point." armored all over with steel plates aver- served in the Danish navy and was before



smaller. There is a gap of two centuries from the royal navy March 2, 1695.

Constitution, built at Boston in 1797, and of the Civil War, one by the Federal and not only still in existence but by au- the other by the Confederate authorities; thoroughly rehabilitated. She was one of close of the war, and the Colorado and the finest frigates afloat in her time and the Wabash. All were excellent ships and

picture represents two types of the earlier steam frigates, the Powhattan and the time of the caravels until the first naval Minnesota. The former was a sidewheel vessel was built in this country. This cel- vessel, built at Philadelphia in 1850. She ebrated ship was the Falkland, represent- was of 3980 tons, carrying 17 guns, and ed in the second picture of the series. She continued in active service until 1887. was completed at Portsmouth, N. H., in when she was condemned and sold. The 1699, and was presented to the English Minnesota was of a class of six powerful Government by the colonists. She was of auxiliary steam frigates which were in 637 tons burden, carried 54 guns and a crew their day the best war vessels in the of 226 men and was formally added to the world. To this class belonged the Roanoke and Merrimac, both cut down and The next picture shows our historic converted into ironclads at the beginning thority of Congress and with the sub- the Franklin, in which Admiral Farragut scriptions of patriotic women soon to be made his tour of European ports after the

المرابعة الم Now They Make Milk Into Buttons.

The milkmen wno supply the city of The Baltimore plant is the only one of Baltimore have been planning how to get its kind in the United States, and it is the most out of the product of the cow, claimed that less than 1 per cent of the and have recently started a plant which products of the milk is wasted. The fluid turns the lacteal fluid into every com- comes in at one end of the building and pound which can be made from it. The goes out of the other in various shapes, milk as it comes from the cow into what runs like a drain. The milk for coffee is buttons, as well as combs, paper weights, tle. The company supplies from 6000 to brush tops and other articles can be 10,000 gallons of coffee milk daily, while This is called lactroid

milk dealers formed a company, purchas- tens of buttons, a half ten of schmeer ed the place and use the refrigerating kase and a ten of lactroid are produced machinery for cooling purposes and for making icecream. The apparatus is so arranged that from the time the milk is poured from the cans into the receiving lons of the raw material every twenty-four hours, such has been the success of the plant that the machinery is being increased to handle 25,000 gallows of the raw material every twenty-four hours, and annex to the plant is a big icecream four hours, and annex to the plant is a big icecream where hundreds of people enjoy the delicacy every night to the music of an orchestra. This is also operated by the company, and considerably increases the consumption of its icecream, machinery for cooling purposes and for every twenty-four hours. Such has been

machinery which is used converts the the only waste being a watery fluid which coffee; into cream, icecream, butter and of cream it contains stamped on each bot-200 gallons of icecream an hour are turned The plant used is an old skating rink, out in the freezers operated by steam where the ice was frozen artificially. The power, In addition to this nearly three

tice vessel of the Massachusetts Naval spread of canvas being mostly relied upon for propulsion.

USTOD . FARRAGUT

The most radical departure from pre-

called clarified milk, for the morning's tested in a laboratory and the proportion performed splendid service. The Minne-panied by the latest development of the Arkansas, Connecticut, Florida and coffee; into cream, icecream, butter and of cream it contains stamped on each bot-sota was built at the Washington navy monitor type, the Arkansas and class Wyoming, now building, the only radical yard in 1855 and is still afloat as the prac- now building. The Monitor was built by departure from the original consists in John Ericsson in 1861, and though indi-Militia. She is 264 feet 81/2 inches long, 51 vidually she was the first crude embodi- officers and crew above the water line. feet 4 inches wide and at 23 feet draft of ment of a scheme to meet an emergency. The sixth picture shows the Katahdin water displaces 4700 tons. She carried she revolutionized the navies of the and the Holland. The former is in a originally a battery of 46 guns, Her en- world. Her wonderful achievements gines, of 1000 horsepower, were consid- quickly showed that spars and salls must ram Tennessee. Admiral Ammen, who ered only as auxiliary power, her large no longer be regarded as part of a war participated in the battle between that cedent in the history of warship construct nance. While the low freeboard monitor warfare, and finally persuaded Congress tiny children are laden with them, so gasoline-driven vehicles is enforced. tion came while the Minnesota and her type has passed out of favor as a deep- to authorize the construction of a vessel class were still new and one of them, sea fighter, there are certain phases of after his designs, which resulted in comthe Franklin, unfinished, and is reprenational defense for which many authorisented in the next painting of the series, ties consider its latest development as the
which shows the original Monitor, accombest vessel that can be devised, and in curing her armor she was not completed in order to strong the finished in order to strong the New York postoffice of
rubbed with oil all over the body and head ficials' recent test of motor vehicles in
which shows the original Monitor, accombest vessel that can be devised, and in curing her armor she was not completed in order to strong then it, and in some collecting mails in the downtown districts.

U.SS- PENNSYLVANIA (CLASS)

providing living accommodations for the

sense the outcome of the Confederate vessel's means of propulsion and that vessel and the Federal fleet, always therefighting ships must be protected by ar- after held a fixed belief that the ram was mor to meet the improvements in ord- the most formidable weapon of marine of luck to their babies, and many quite which the law against the carrying of

the armored conning tower and the years painted plants, bugs, etc., for offismokestack and ventilators are the only projections above the deck, except the past four years he has painted steadily davits and gallows frames for stowing for the Navy Department. His more notthe boats. Unfortunately, the Katahdin able canvasses are "The Mayflower." had no opportunity to display her quali- which was made for Leland Stanford Unities during the Spanish war, when she versity, "Paul Jones' Victory," which was stationed near Cape Cod to defend hangs in the Army and Navy Club; "The Boston from a fleet that never material- Loss of the Denmark," executed for the ized. The other vessel in this picture is Scandinavian societies of America for the submarine boat, lately purchased by presentation to the captain of the Misthe Government after exhaustive tests, souri, who effected the rescue of 1300 perwhich led also to contracts for six others sons in that memorable disaster; "The by authority of Congress. Accompanying Battle Between the Merrimac and the these two unique types is the steel tug- Cumberland," in the Corcoran gallery, boat Unadilla, a type of several which and about twenty large paintings of have been constructed in recent years for American warships, which are exhibited naval use. She was built at the Mare in the Navy Department.

cial government publications, but for the

## Odds and Ends From Everywhere.

In nearly every country there exist cases still a few drops of brandy are laid

treatment of very young children. Some are supposed to bring luck, while ours of putting an egg or coin into an others are used to dispel the evil spirit, infant's hand for luck on first visiting it which is believed to be in the child from looks quite insignificant. Some old wives birth. In some parts of Ireland a belt of have it that an infant's temper is influwoman's hair worn around the infant's enced for life by the person who first body is supposed to protect it from harm, kisses it. After all, these old wives' tales while the Grecian mother, with the child are very harmless.

in its arms, turns three times around be- After trying every conceivable fabric fore a fire to accomplish the same end.

Cruel to be kind seems the Spanish

After trying every conceivable fabric
and leather in the make-up of their "motreatment of sweeping a baby's face with toring clothes," French chauffeurs have a pine bough, that good luck may follow decided that kangaroo leather is the ideal it in life. Another treatment which seems material. It is warm, pliable, sheds the

Holland of putting into the cradle of a most adverse weather conditions. newly born child, steak, bread and garlio, Amulets and charms of various kinds great is the fear of harm to their offspring.

some superstitions with regard to the on the lips of the child to make it a true treatment of very young children.

Breton. Beside these quaint customs,

almost barbaric to us is the custom in rain and retains its appearance under the

The Pennsylvania Railroad's ferryboats seem to the Turks to be the best bringers are the only craft around New York on

A saving of fifteen minutes per trip is