## ARMY AND NAVY CHRONICLE.

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## DOMESTIC MISCELLANY.

## From the Naoal Magazine.

## LINEOFBATTLESHIPOHIO.

By a member of thr Naval Lyceum.
Thin aplendid ship, which has been recently rebuilt, from the water's odge up, and fitted out ton such materly atyle at our navy yard, under the direction of Commodore Ridgely, has been taken to Boton, under the command of Captain lawrence Kearny, and is now in the diy dock at that station. It ie gratifying to learn, that her lower works require much less repair than was expected from the circuinstance of her having remained moored, in the Wallabeot, for seventeen years after she was launched.
When the water was pumped out of the lock, her bottom was aecertained to be perfectly sound; but from the unakilful manner of docking her, the blocks having been laid with nearly a foot crowning, it is feered that che has been comewhat hogged in the procem. As the keel was laid bare, it wasdiscovered that the centre blocks, which were made to sustain the whole weight of the ship, were crushed duwin, whilat the forward and after parts did not touch by everal inches. A more ingenious contrivance to rain the chip could not well have beendevised; but, from ber great strength, it is still hoped that she has chown the same firmness in resisting all altempts to interfere with her perfect model, that her constructor did while she was on the stocks.

It is to be regretted that the ship could not have had her repirs completed without the necessity of leaving the New York yard, where naval construction and fitments of all kinila, are more neally and subatarially executed than at any uaval station in the United S'ates. Appropriations have long since been made for the commencement of a dry dock here, but. thus far, we see no hope of the construction of mech an important and uneful work. The line-ofbattle shipe Washington and Franklin are both at this gard requiring repairs, which can only be made in a dry dock and, under existing circumstances, must be sent to other stations to be re-built. The expense of this, added to that of sending the Ohio to Boston, would nearly, if not entirely, pay for a dry dock at this station.
There never has existed any gool reason why a dock should not the constructed at this port; but, even admitting the objections made hy some to the insufficient depth of water formerly found on the bar, for the paseage of large ships, the recent discoveries of Lieut. Gedney have now set that difficulty entirely at reat. The Uhio passell out through his new channel, carrying full thirty feet water, to which a foot must be mided in consequence of the tide having falian before she reached the bar. This is more than sufficient to float the largest ship that ever was buitt; what more is required? Here we will leave this :uh, ject, with the sincere hope that when anuther large chip may require a thorough repair, it may not be mecessary to send her off to another statioll.

In the course of the passinge of the Ohio from this port to Bosion, from the report of the officers who zailed in her, she realized the fullest expertations of those who had so confidently predicted her good qualities as a sea boat, fast sailer, \&c. She proved to be perfectly easy in all her motions, steered like a pilot boat, worked quickly, and sailed at the rate of 12 knots, 7 fathoms with a whole sails breeze, off the wind, and $10 \frac{1}{2}$ knots by the wind, under loublereefed topsails. This was certainly a wonderful pertormasce, whon we comeider that she had an old set
of sails belonging to the Franklin 74, one foll reef too small, and that her copper was quite foul, as may reasonably be supposed from the circumstance of its never having been louched in seventeen yeara. Added to this rapidity of sailing, she possesses the advanteges over all other ships of her class in our navy, of a lighter draught of water, and noore room on ber decks to fight her guns.
It is innpossible'for a reaman to look at her for a moment, without acknowledging her to he one of the most heautiful ships that ever floated; and we sincerely congratulate the navy and the nation, that she has been reserved from lingering, but certain destruction, by the liberality of Congrese in making a special appropriation for her repairs ; for we truly believe that she will now become the model from which all ships of her class will, hereafter, be constructed.
And, here, let us express our regret, from our aincere intereats in the navy, that the same master hand whirh moulded her, was not employed to superintend the construction of out entire navy. Had this beea done, we now shoulc! havea collection of beautiful. fleet, and efficient ships of all classes, in lieu of the present Dutch galliot looking things which, instead of keeping pace with the improvements of the day, carry usat once back to the days of De Ruyter and Van Troinp.
Any person desirons of seeing an exhibition of naval architecture of the present day, will do well to visit our navy yard at this time, where he will find some specimens of this nuble art, in the form of exploring veasels, which would rival the most approved models in the chinese navy. I hazard nothing in saying that such vessels never could have come into existence under the direction of such an architect as Henry Eckfori. The same mind which modelled the Ohio, and those beautiful frigntes which were built for the South A mericans, could not, with all its ingenuity, have given birth to such deformities as the Pilot, the Pioneer, and the Consort. Well may the Sultan have exclaimed, when he witnemed the productions of Mr. Eckford's profeseional genius at Constantinople, "A merica inust be overstocked with talent, if she con spare so grent a manl as Mr Fickford!" But she could not spare him; and he ought never to have been permitted to leave the country while the treasury was rich enough to command lis services. Our naval reputation in future encouuters may be the price of our fo'ly in this respect. During our last war with Great Britain, our ships were superior in point of eniling to those of all other nations. Two of those ships are still in existence-the Constitution and the Uuited States-and, notwithstanding the number of new vesaels which have since been built, they are still the fleetest in the navy, and the only tivo which can cope with the improved models of the French and English architects.
These frigates were built in the year 1797. What then las becn the itnpruvement in our ship building in forty years? The auswer is simple. In the constructions of our merchant ships, the improvement has been astonishingly great. They have combined upeed with bulk, beally wilh strengith, comfort with economy, and, added to all these, every mafe and desirable quality which a sea-going vessel can possess; wheress, in the navy, with one or two exceptions, we have as rapidly retrograded in almost every particular except strength, to which every other consideration is made a sacrifice, and so loug as the present order of things continues, we fear we never shall advance. We hopr, however, when the Chio's qualities are twore fully developed, and forced on the
attention of those under whose care the navy is growing up, that a new systen of things may arise, and that our officers thay once more have the pride and satisfaction of finding themselves on board of ships which can get out of the way of such as are too heavy for them, and overhaul those of equal or inferior force.

Dimensions of the U. S. Ship Ohio.-The following are the principal dimensions of the Ohio, her spars, sails, \&c., which may be of interest to our naval readers:

Length between perpendiculars,

## Ft. In.

198
Beam moulded.
Depth of hold from upper side of timber
to upper side of orlop deck,
54
From upper of orlop deck to top of lower gun deck,
From top of lower gun deck to top of upper gun deck,
From top of upper gun deck to top of spar deck,
From base line to top of timbers,
From epar deck heans to top of rail,
Depth from base line to top of rail,
Rake of stern post,
Rake of stem,
Length of orlop deck,
Breadth,
Lower gun deck in length,
Breadth,
Length of upper gun deck,
Breadth,
Length of spar deck,
Breadth,
Extreine breadth,
Thickness of deck plank,
Length from figure head to outside of
tafferel,
beight from bottom of keel to top of
midships,
rail of midships,
Height of ports,
Breadth,
Lower gun deck ports in number, 34
Upper gun deck do. do. 36
Spar deck do. do. 36
Whole length of keel,
Tonnage. Carpenter's measurement, 2,542 52-95 tons.
Draft with 200 tons ballast on board forward,
Aft,
Displacement,
2170 tons
Deduct ballast 210 "
Displacement at launching draf, 1960 "
Height of lower midship port sill when loaded,
Above water, as near as I can judge, the draft of the water when loaded will probably be, forward,
Displacement nt this line,
Deduct displacement at launching draf, 1960

1992
Actual tonnage,
Displacement of 1 inch at light draft, do at load line, $\mathbf{2 2}$ tons Do. do at load line, 22 do.
It is estimated that the three lower masts and bowsprit, including trusseltrees and cap, will weigh 80 tons.
Main mast,
Do. top mast,

Masts and Spars.
Spars.
Length Diam. Mast hds
Ft. In. In. $\begin{array}{ccc}7246 & 40 & 20 \\ 70 & 21 \frac{1}{2} & 12\end{array}$
Do. Iop mast,

| 41 12 |
| :---: |
|  |  |

Do. top gallant mast,
Do. royal mast,
Do. flag pule,
Fore mast,
Do. top mast,
Top gallant mast,
Royal mast
Do. flag pole,
Mizen mast,
Do. tup mast,
Do. top gallant mast,
Do. royal mast,
Do. flag pole,
Main yurd,
Do. topsail yard,
Do. top gallant yard,
Do. royal yard,
Fore yard,
Do. topsail yarl,
Do. top gallant yard,
Do. royal yard,
Cross jack yard,
Mizen topsail yard,
Do. top gallant yard,
Do. royal yard,
Sprit sail yard,
Bowsprit,
Jib boom,
Flying jib boom,
Height from water line to main truck,2

Height from water line to
fore truck,
2046
Height from water line to
mizen truck 1956
Length from knight heads
to end of lying jib
boom,
Sails.

| Sails. | Yie. No |
| :---: | :---: |
| Main course, | 1440 |
| Do. topsail, | 1520 |
| Do. top gallant sail, | 420 |
| Do. royal, | 1100 |
| Fore course, | 1260 |
| Do. topsail, | 380 |
| Do. top gallant sail, | 160 |
| Do. royal, | 760 |
| Mizen topsail, | 200 |
| Do. ${ }^{\text {Do. royal, }}$, | 80 |
| Spanker, | 4002 |
| Main spencer, | 600 |
| Fore spencer, | 52 |
| Do. storm stay sail, | 24 |
| Do. top mast stay sail, | 260 |
| Jib, | 660 |
| Flying jib, | 380 |
| Main top mast stay sail, | 320 |
| Middle stay sail, | 280 |
| Lower top gallant, | 220 |
| Upper do. | 140 |
| Royal, | 901 |
| Lower studding sail, 2, | 1080 |
| Fore topmast studding sails, 2 | 890 |
| Fore top gallant do. do. 2, | 440 |
| Fore royal do. do. 2, | $\begin{array}{r}140 \\ 1050 \\ \hline\end{array}$ |
| Main top mast do. do. 2, | 1050 |
| Main top gallant do. do. 2, | 620 160 |
| Main royal Fore sky sail, | 1007 |
| Main do. do. | 1407 |
| Mizen, | 807 |

Quantity of canvass in one suit of aails, 1624 within a fraction of two acres.

