ARMY AND NAVY CHRONICLE.

Published by A. B. Claxton & Co., at \$5 a year, payable in advance.

Vot. VI -No. 1.1 Washington, Thursday, January 4, 1835. 🝮 [WHOLE No. 157.

DOMESTIC MISCELLANY.

From the Naval Magazine. LINE OF BATTLE SHIP OHIO. By a member of the Naval Lyceum.

This splendid ship, which has been recently rebuilt, from the water's edge up, and fitted out in such masterly style at our navy yard, under the direction of Commodore Ridgely, has been taken

to Boston, under the command of Captain Lawrence Kearny, and is now in the day dock at that station. It is gratifying to learn, that her lower works require much less repair than was expected from the circumstance of her having remained moored, in the Walla-

bout, for seventeen years after she was launched.

When the water was pumped out of the dock, her
bottom was ascertained to be perfectly sound; but from the unskilful manner of docking her, the blocks having been laid with nearly a foot crowning, it is feared that she has been somewhat hogged in the process. As the keel was laid bare, it was discovered that the centre blocks, which were made to sustain the whole weight of the ship, were crushed down, whilst the forward and after parts did not touch by several inches. A more ingenious contrivance to ruin the ship could not well have been devised; but, from her great strength, it is still hoped that she has shown the same firmness in resisting all attempts 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 repairs completed without the necessity of leaving the New York yard, where naval construction and fitments of all kinds, are more neatly and substantially executed than at any naval station in the United States. 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 such an important and useful work. The line-ofbattle ships Washington and Franklin are both at this yard 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 be constructed at this port; but, even admitting the objections made by some to the insufficient depth of water formerly found on the bar, for the passage of large ships, the recent discoveries of Lieut. Gedney have now set that difficulty entirely at rest. The Ohio passed out through his new channel, carrying full thirty feet water, to which a foot must be mided in consequence of the tide having fallen before she reached the bar. This is more than sufficient to float the largest ship that ever was built; what more is required? Here we will leave this subject, with the sincere hope that when another large ship may require a thorough repair, it may not be necessary to send her off to another station.

In the course of the passage of the Ohio from this port to Bosson, from the report of the officers who sailed in her, she realized the fullest expectations 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 ticular except strength, to which every other con-12 knots, 7 fathoms with a whole sails breeze, off the sideration is made a sacrifice, and so long as the prewind, and 103 knots by the wind, under double-reefed topsails. This was certainly a wonderful per-shall advance. We hope, however, when the Ohio's termance, when we consider that she had an old set qualities are more fully developed, and forced on the

of sails belonging to the Franklin 74, one full reef too small, and that her copper was quite foul, as may reasonably be supposed from the circumstance of its never having been touched in seventeen years. Added to this rapidity of sailing, she possesses the advantages over all other ships of her class in our navy, of a lighter draught of water, and more room on ber decks to fight her guns.

It is impossible for a seaman to look at her for a moment, without acknowledging her to be one of the most beautiful 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 Congress 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 sincere interests in the navy, that the same master hand which moulded her, was not employed to superintend the construction of our entire navy. Had this been done, we now should have a 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 Tromp.

Any person desirous 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 noble art, in the form of exploring vessels, 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 Eckford. The same mind which modelled the Ohio, and those beautiful frigates which were built for the South Americans, 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 witnessed the productions of Mr. Eckford's professional genius at Constantinople, "America must be overstocked with talent, if she can spare so great a man as Mr Eckford!" 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 his services. Our naval reputation in future encounters may be the price of our folly in this respect. During our last war with Great Britain, our ships were superior in point of sailing to those of all other nations. Two of those ships are still in existence—the Constitution and the United States-and, notwithstanding the number of new vessels which have since been built. they are still the fleetest in the navy, and the only two which can cope with the improved models of the French and English architects.

These frigates were built in the year 1797. then has been the improvement in our ship building in forty years? The answer is simple. In the constructions of our merchant ships, the improvement has been astonishingly great. They have combined speed with bulk, beauty with strength, comfort with economy, and, added to all these, every sefe and de-sirable quality which a sea-going vessel can possess; whereas, in the navy, with one or two exceptions, we have as rapidly retrograded in almost every par-

Language the r	navy is l
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growing up, that a new system or have the	e pride D
and that our officers may office more and satisfaction of finding themselves on be and satisfaction of the way of such as	oard of D
and satisfaction of finding themselves as ships which can get out of the way of such as ships which can get out of the way of such as	are too F
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ferior force. Dimensions of the U. S. Ship Ohio.—The ing are the principal dimensions of the Ohing are the fer which may be of interest to	io, her D
spars, sails, &c., which may be of interest to	our na- N
val readers:	t. In.
•	t. In. I 98 I
Length between perpendiculars,	54 I
Beam moulded, Depth of hold from upper side of timber	1
	15
From top of orlop deck to top of lower	7 5 1
	7 5
From top of lower gun deck to top of up	77
per gun deck, From top of upper gun deck to top of	\ 1
anan dack	7 31
The base line to top of timbers	2 7 5 1
Trom and deck healing to top or inity	45
Depth from base line to top of rans	8
Rake of stern post,	82
Rake of stem, Length of orlop deck,	192 8
Recodin.	49 8 194 6
Lower gun deck in length,	51 2
Breadth.	199 1
Length of upper gun deck,	50 8
Breadth, Length of spar deck,	208 81
Breadth.	49 6 55 6
Fytreme breadth.	41
Thickness of deck plank, Length from figure head to outside o	
4 C a l	
tafferel, Height from bottom of keel to top o	f
rail of midships.	40 0
Distance between the ports,	7 8 2 9
Height of ports,	3 4
Breadth, Lower gun deck ports in number, 84	1
Tinner gun deck do. do.	ļ
Spar deck do. do. so	175 6
Whole length of keel.	175 6
Tonnage. Carpenter's measurement,	1
2,542 52-95 tons. Draft with 200 tons ballast on board fo	r-
ward,	10 2
Aft.	19 4
Displacement, 2170 tons	1
Deduct ballast 210 "	
Displacement at 1960 "	
Height of lower midship port sill wh	en
landad	•
Above water, as near as I can judge, to draft of the water when loaded will p	10-
bably be, forward,	24
aft.	25
Displacement at this line, 3952 to	ns.
Deduct displacement at launch-	
ing draft,	
Actual tonnage, 1992	
Displacement of 1 inch at light	
Displacement of 1 inch at light	
Displacement of 1 inch at light draft,	do.
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Displacement of 1 inch at light draft, 17 t Do. do at load line, 22 It is estimated that the three lower massprit, including trusseltrees and cap, was tons. Masts and Spars. Length Di Ft. In. I 124 6 4	do. sts and bow- rill weigh 80 am. Masthds n. Ft. In.

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	Ft. In.		Ft. In.
Do. top gallant mast,	41	1?	6 1
Do. royal mast,	24	9 3	
Do. flag pole,	16	1	10
Do. flag pole, Fore mast,	115	864	18
Do. top mast,	63	211	10 6
Fop gallant mast,	37 6	22	56
	22	81	•
Royal mast	10		
Do. flag pole,	105	26 t	16
Mizen mast,	55	16 1	9
Do. top mast,	33 6	9 1	46
Do. top gallant mast,	20	7	
Do. royal mast,	8 6	•	
Do. flag pole,	107 6	23 1	5
Main yard,		17 }	6 6
Do. topsail yard,	78	101	2
Do. top gallant yard,	52		ĩ 6
Do. royal yard,	36	7	5
Fore yard,	96	213	_
Do. topsail yard,	71	16	6
Do. top gallant yard,	46	9 }	2
Do. royal yard,	32	63	16
Cross jack yard,	80	16	76
Mizen topsail yard,	52	11	4
Mizen topsair yard	33	6 }	16
Do. top gallant yard,	23	4 4	
Do. royal yard,	52	11	4
Sprit sail yard,	78	37	
Bowsprit,	60	164	
Jib boom,	61	103	
Flying jib boom,	01	103	
Height from water line to			
main truck, 2	25		
Height from water line to			
fore truck, 2	204 6		
Height from water line to			
mizen truck	195 6		
Length from knight heads)		
to end of flying jit	,		
	113		
boom,			
Sai			
San			Yds. No.
			1440 1
Main course,			1520 1
Do. topsail,			420 8
Do. top gallant sail,			
Do. royal,			220 5
Fore course,			1100 1
Do. topsail,			1260 1
Do. top gallant sail,			380 3
Do. royal,			160 5
			760 1
Mizen topsail, Do. top gallant sail,			200 3
			80 5
Do. royal,			400 2
Spanker,			600 1
Main spencer,			520 1
Fore spencer,			240 Î
Do. storm stay sail,			260 1
Do. top mast stay sail,			660 2
lib.			000 A

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

2,

do.

do. 2, do. 2, do. 2, do. 2, do. 2,

660 380

1080

890

440

140

1050

160

100

140 7 80 7

6777 520

Jib,
Flying jib,
Main top maet stay sail,
Middle stay sail,
Lower top gallant,
Upper do.

Fore top gallant do.

Main top mast do.

Main top gallant do.

Lower studding sail, 2, Fore topmast studding sails, 2

do.

do.

Jib,

Royal,

Fore royal

Main royal

Fore sky sail,

Main do. do.

Mizen,