the feet at the middle, so that the heels are as long as the tificial stone, and have met with many kinds which have that yachtmen claim that she is one of the fastest schooners front part of the foot; and to keep the figure from toppling very little merit. Some however are really good stones, and in the world. By the wind—that is, close-hauled—she has over side-wise, a flat bar extends laterally from each foot.

To give the appearance of bending at the knee a toggle nothing to do with the propulsion of the automaton.

being alternately the pedestal or base upon which the body | fence being also of the same material.

is concealed in the body. The smoke escapes through a hole to give as little publicity to their processes as possible, in orin the crown of the hat. When the steam man is about to der to prevent infringements. faithful attendant, and retraces his steps in the same manner dense. as we have described.

for a spanking.

WASHINGTON CONSIDERED AS A PLACE FOR AN EXHIBITION.

Hallet Kilbourn, Esq., has sent to us a copy of the interesting speech delivered by him at Lincoln Hall, Washington, in support of the somewhat melancholy project of holding an "International Industrial Exhibition" in that city.

Our readers are probably aware that Washington is situated on the Petomac river, about twenty-five miles above Mount Vernon. It is principally celebrated for being the capital of the United States, and was selected for that purpose by the "Father of his Country," in view of its retired and almost inaccessible situation. A railroad communication has, however, been opened since the death of den. Washington. Capitol, though it is still somewhat off the line of public

In speaking of the characteristics of Washington city, Mr. Kilbourn refers thus to the "Market House:"

"Probably no one prominent object in the city commands so many opprobrious epithets, and is so universally conceded a nuisance, alike by citizens and sojourners, as the group of old sheds fronting five hundred feet along Pennsylvania of his lectures, said that, in all his travels around the world, visiting objects of interest in Christian and heathen lands, tion that, at the national capital of his own proud Republic, there existed a structure whose equal was not to be found on Pennsylvania avenue."

It seems, however, that four years ago the city authorities present a building, which would be a credit to Pennsylvania were adopted which would require the expenditure of several | The N. Y. Herald thus describes the rival vessels: hundred thousand dollars, and the money was appropriated by the city. After the erection of the foundation, at an expense of several thousand dollars, Congress suddenly realized the fact that the old white-washed land-mark (and guide-post a permanent structure to be erected in its place; whereupon the a resemblance to the stiffness and stability of a Cunard House stopped this outrage on civilization by unanimously steamer. It can hardly be said that the Cambria is as gracepassing a resolution putting a stop to the job.

have an "International Industrial Exhibition," borders a trifle | bodiment of their ideas as to speed. Her dimensions are upon the absurd.

ARTIFICIAL STONE.

We have heretofore expressed the opinion that nothing whatever can take the place of good stone for building purposes. Nothing else is so durable and nothing else is capable of producing such architectural effects. The only draw back to its more general use is the expense attending cutting it into the required forms.

As the constituents of building stones are easily ascertained and well known to chemists, it is somewhat remarkable that long before this the art of making artificial stone has not been brought to perfection. Yet if we may judge from the great and increasing variety of processes, patented and topsides. Her interior fittings are remarkably beautiful, rich, otherwise, which now press their claims upon public notice, the time is ripe for the introduction of any process which can oak. On the principle upon which she was built the Cambria is demonstrate practically its capacity to fulfill the require- a most perfect triumph, and no one need doubt that she is the ments of the case.

These requirements are not numerous, yet they have been hard to attain, as the history of the failures which have marked the course of invention in this field, sufficiently shows. The Ransome process, successful in England, has not proved so in America yet, though it cannot be said to have had a fair trial here.

We doubt, however, that it will ever compete with cheaper building stones are produced.

We have for the last two years availed ourselves of every vane. It is by her qualities of being sharp and quick in stays,

as such must in our opinion come largely into use.

joint is attached to the front part of each leg, but this has lished in Chicago, that a stone has been introduced there called the Frear Artificial Stone, which is described as fully There is nothing in the movement analogous to that of the equaling brown stone both in appearance and endurance. A human leg. One foot is raised and then advanced, the whole very handsome residence has been erected on one of the fashleg moving forward, not swinging, with the foot, each foot ionable avenues of that city of this stone, the sidewalk and

The nature of the process is not detailed, in fact it is gen-The fuel employed is some fluid hydrocarbon, and the boiler early thought advisable by manufacturers of artificial stone

take a walk, his valet takes a pair of pinchers and after open. We have latterly had our attention called to a kind of artiing the throttle valve, seizes with the pinchers the end of a ficial stone-an advertisement of which will be found in anshaft which protrudes just below the abdomen, and giving it other column—manufactured by Mr. Herman A. Cunther, of a partial turn, a most remarkable sound resembling the rum- | Eighty-sixth street, between Third and Fourth avenues, in bling of wind in the bowels commences, and the steam man this city, which we find to be a very excellent stone. In fact sets out upon his travels with a rather unsteady gait, and we have not met with anything which in our opinion is supewith extremely short steps. When he reaches the end of his rior to it in solidity or beauty of surface. It chips with the limit the steam is shut off, and he is turned about face by his chisel almost as hard as blue lime stone, and is almost as

We have been shown specimens of this stone which have yachts—the Aline, Oimera, and Condor. On the whole, the steam man is a curious automaton, and been laid into sidewalks, and made into a continuous surface very much more satisfactory than his predecessor exhibited of great strength and beauty. Our experiments with it lead two or three years since in this city, who could only stand us to believe that it will sustain a crushing weight of 150 upon fixed crutches, and kick like a spunky child suffering tuns to the square foot, and the action of water hardens rather than softens it.

> It has the great advantage that it may be laid up in continuous walls, leaving no cracks or crevices; a property which has given it considerable request for breweries, malt her forte. During the present season the Cambria has been houses, linings for water tanks, and cellars into which water flows. It may also be molded while in the plastic state into and her scuppers have been much enlarged. She is now, acany desired ornamental form, thus saving the expense of cording to the dispatches in her best trim, and she will have cutting. Any desirable shade of color may also be given it every American and English eye bearing upon her during the except, we believe, pure white.

The material sets very quickly and the stone can be made very cheaply. We believe the Frear stone and other kinds thus much as a matter of simple justice to what we deem a dimensions are: and it is now much easier than formerly to reach the Federal meritorious invention, and would advise those interested to examine the stone in question, at the works above mentioned.

THE YACHT RACES.

Last year the American yacht Sappho was badly beaten in England by the British yacht Cambria. The owners then came to an agreement for additional races this year, the Sappho people being very confident that their boat was the avenue, and styled the Center Market. Mark Twain, in one fastest sailor, and attributing their defeat to breakage of spars. Three races have been arranged for the present year between the above yachts, the first of which took place on the his national feeling was constantly buoyed up by the recollec- 10th May, when the Sappho came off victorious, greatly to gave up the contest, admitted defeat, and returned to port of ballast, stowed with fine judgment. without having sailed to the stake boat. Two races yet reproposed to erect an elegant structure on the premises, and main to be sailed—ene "sixty miles dead to windward and back," and the other a triangular course of sixty miles, twenavenue, clean and commodious, for market purposes. Plans ty miles on each bounding side of the equilateral triangle.

THE CAMBRIA.

The Cambria, schooner, 248 tuns, New York Yacht Club measurement, and probably the fleetest of the British yachts, was launched in May, 1868. She is a fine type of the deep for meandering representatives) was about to disappear and and narrow English model, and in external appearance bears ful and charming in her pose upon the water as the majority It seems to us, therefore, in view of the facts that the idea of American schooners, and this is simply because the Engof Mr. Kilbourn, or any other man, that Washington should lish are willing to sacrifice anything to secure the full em-

	reet.
Length (from stempost to sternpost)	108
Beam.	21
Depth of hold.	
Draft of water.	
Mainmast (hounds to deck)	
Foremast	
Main boom.	
Main gaff	
Fore gaff.	
Bowsprit (outboard stem)	35
Maintopsail	
Foretopsail	
Maintopsail yard	
Foretopsail yard	29

She is a keel schooner, substantially built of oak, with teak | has few superiors or equals. and in good taste, and the wainscoting is finished in polished finest schooner in Great Britain. All of the delicate niceties employed by English yachtsmen in ballasting, sparring, and canvasing, have been tested by Mr. Ashbury, who, with a spirit which does credit to the most fascinating of all pastimes, has done much to develop yachting among his own countrymen to its present high status.

The Cambria has twenty-one tuns of ballast smelted and run into her timbers, and she has also four tuns of lead bolted American processes, by which some excellent and cheap to her keel. Under sail she spreads a vast area of canvas, and works in the wind with the ease and facility of a weather

for feet, fastened rigidly to the legs. The legs are joined to opportunity afforded us to examine and test specimens of ar- of being close to the wind, of making good time in light airs gaff topsails bent to the ordinary spars; but in sailing free she We notice in the Art Review Advertiser, a new journal publihas much longer and lighter and more flexible yards aloft, and the sail of lighter canvas, of course, clubs out a considerable distance. Her bowsprit is a very peculiar spar, and with the jibboom and flying jibboom is all in one stick and rigs in and out at the option of the sailing master. Of course it is ugly in appearance, but the nautical advantages claimed for it are many and doubtless well founded.

The Cambria has had a brilliant and eventful history. She has been the victor in many contests, and her bold and gallant owner and commander has sailed her in most all the seas that wash European shores, and has but recently returned from his cruise up the Mediterranean. She first won fame upon June 2, 1868, when she came in first, with the Egeria and Fleur de Lis as competitors; but in this contest she failed to win the prize because she had to give time allowance. She also figured with evidences of the finest qualities on the 17th of June, 1868; on the 30th of June, 1868; on the 6th of August, 1868; and on the 11th of August, 1868.

On the 26th of August, 1869, she beat the Sappho, her competitor yesterday, and in the same race, three fast English

After these victories alterations were made in the Cambria to make her more sea-worthy. She was padded forward, her masts were bored, and the weight of her keel was diminished. Besides, on the occasions named, the Cambria has won golden laurels, especially upon beating to windward, in a trial of this quality with an English cutter (corresponding to our American sloop), in which she was again the victor. This is given more ballast, her bulwarks have been raised forward season of 1870.

THE SAPPRO

All will remember the keel schooner Sappho, 274 tuns New of artificial stone will find it somewhat difficult to give bet- York Yacht Club measurement, owned by that thorough ter results than those secured by Mr. Cunther, who is the as- yachtman Mr. William Douglas. She is one of the finest, signee of the patent which covers the process. We have said ablest, and fastest of all American or English yachts. Her

		Fee	et.
	Length of keel	11	13
	Length on water line	12	59.3
	Length on deck	12	25
	Length over all.	18	54.8
	Beam	5	27
	Depth of hold		11
	Foremast		91.20
	Mainmast	٠. ٤	9.6
	Maintopmast	5	54
	Foretopmast		
i	Main boom.	7	6
	Main gaff		
	Fore gaff	:	36
	Head booms (outward)	:	30

The Sappho draws twelve feet of water aft and seven forthe delight of the Americans. The race was from Cowes, for ward, carries a squaresail, a staysail, two gaff-topsails, and a distance of 60 miles to windward, up the English Channel. | five lower sails, and has great buoyancy and stability by form, the face of the habitable globe—the Center Market-house, on The Sappho soon beat the Cambria out of sight, so the latter both of which comes from a good model and sixty-five tuns

> In her model, as can be seen from her comparative beam and hold, respectively 27 and 11 feet, she carries out the American idea of construction. Her bows are very long and fine and her lines forward are nearly straight. She has very little concavity. One peculiarity forward is her bowsprit, which is built in her, thus securing one-third more strength than by the usual plan, with one-third less weight. A very severe test of this improvement has shown it to be of great value, and as an experiment it is very successful.

Coming aft an examination of her lines reveals the excessive swell in her bilge lately increased by Mr. Douglas by "hipping"—that is, by planking on the original framework and augmenting her width below the water line. These alterations took place between the fore and main mast and certainly give the Sapphornore buoyancy under the large cloud of canvas which she spreads in all weathers; but it is doubt ful if she has gained in speed—at least this is the impression of her former owners. Perhaps it might be well to say she has little to gain in this particular.

From the fattest part of the bilge the schooner's sides hollow with considerable concavity, and terminate in a rocker keel, 36 inches deep. She has a very fine and light stern, peculiar to herself, and is quite hollow aft. Her stern is all dead wood and drags no water, leaving a narrow wake. She stands up well, is remarkably quick in stays, is well sparred, and nearly as strong as crystallized rock; built of oak, locust, and hackmatack; finished on the interior with a hard wood cabin, and in every respect a graceful and elegant craft. She

The amount of sail she spreads is incredible, and in light airs there is not a square inch of area within the limits of the stays through which the sky is visible.

Death of Franklin Peale.

Franklin Peale, Esq., whose decease occurred May 5th, in Philadelphia, was a highly esteemed citizen, and extensively known through the public positions he formerly held, and his connection with various scientific, musical, literary, and charitable societies. For a number of years past he has been President of the Pennsylvania Institution for the Blind. Mr. Peale was the son of Charles Wilson Peale, himself an eminent Philadelphian, and the founder of the widely known "Peale's Museum." He was an associate of his father in the organization, and subsequently was engaged in the mainter