## Scientific American.

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Steam Navies.

It appears that some of the English newscond. Many of our newspapers, and some of tons. It is right that we should be well incan Johnny-cakes and hommony. They really appear to be afraid of our Model Republic, -afraid that the despots will submerge England and then swallow up our continent, Bunker Hill and all that. It is really grievous to us, whose hours are so often taken up in plowing through statistics and acquiring unassailable facts, to see so much ignorance displayed by many of our distinguished countrymen in respect to foreign powers. All the powers of Europe united, could not make an impression upon our coasts, if we except England with her tremendous navy. If they should come here, we would give them a welcome, and a they could set foot upon our shores. It appears to us that the people of England, who are making such an ado about being invaded from France, are not well acquainted with the to her in power is that of the United States. , own at the same time.

By the recently published report of the Secretary of our Treasury, it is stated, that we line of steamers, are the largest in the world; short period. We have 96 marine steamships, ing trade on the Pacific. 15 of which, compared with 15 of the largest belonging to England, exceed them by 5,000 tons; and then to these we can add 382 steam propellers, some very fine and large ships. France and Russia combined have not a steam mercantile marine equal to ours; and as for ments on Planing Machines and for tonguing the other powers on the continent of Europe, and grooving planks, was passed by the Patheir steamships are about as numerous as | tent Office on the 8th day of July, 1845, but it dromedaries on our prairies. At the present is not generally known how that re-issue was moment there are, in the New York docks, brought about, nor the history of the agents as five or six new steamships, of the largest class, connected with that affair and the Woodworth land, and lo ! as many patriotic speeches are quires 10 square inches of atmospheric presalmost ready for sea. Our steam marine is Patent. In December, 1828, William Woodnow very powerful, far more so than we are worth obtained his patent, and it was renewliable to suspect: it has grown up, as it were, ed for fourteen years, once, by special Act of " in a single night."

The inland steam ships and boats of the Uni- and executors, after its first term had expired ted States number 766; the tonnage of these, (Dec., 1842). Two years after the Act to exin the aggregate, amounts to 204,613 tons; the tend it had passed, and five years, we believe, tonnage of our marine, amounts to 212,500 after the inventor was dead, namely, the 18th tons-total 417,113 tons. Our mercantile June, 1844, the son of the inventor, W. W. steam vessel tonnage is the largest in the Woodworth, surrendered (as is the custom to world. Our government navy, however, is do when re-issues are applied for) the original exceedingly small, and of no great strength, patent, and prayed the Commissioner of Pabut with it and the mercantile new steamships, tents, H. L. Ellsworth, Esq., to re-issue it in and Representatives should pay so much atwhich can be easily transformed into power- three distinct patents, for so many combina- tention-and all of no use whatever-to disful war vessels, we have not the least occasion to fear the united forces of all the despo- - that is, to make three patents out of the old ties, and neglect the important concerns of tic powers of Europe; our pancakes are safe, one, embracing claims not sought for in the and if we do not destroy our own liberties, we original patent. Dr. Jones was the agent in Franklin's advice, "mind your own business." He is desirous of an opportunity of superin-tending the erection, with his system of venti-Frenchified and Cossackized to-morrow. - against it, and withhold the patent. The ap- quickly. Look into the question of extend- pay attention to this subject. rance of the power of England, both among withdrawn. Mr. C. M. Keller was then the application for it does not require some of the the people there and our people here. This Chief Examiner, and he it was who examined invective so freely dealt out to the governwe judge from the statistical facts respecting the application, and, as was his duty to do, he ments of other nations. her steam navy and mercantile steam marine. no doubt wrote the letter of refusal, which Her steam navy is really terrific: being no Mr. Ellsworth signed. After Mr. Ellsworth | Communication through the Lakes with the less than 147 vessels, besides three new 80- was superseded by the Hon. Edmund Burke, gun propellers ready to be launched. One on the 5th of May, 1845, Mr. Keller resigned, half of these, only, are in commission, but | and Mr. Fitzgerald, his assistant, was appointships and steamboats: the city of London gerald, enrolled upon parchment, and signed, of Russia.

21,059 tons. Thus, in three ports, there is a tons. There is a statement in the last Frankpapers have got into an awful agony about the ; lin Journal making the merchant steam toninvasion of old Albion by Bonaparte the Se- nage of Great Britain to be only 142,080 our orators, have also descanted tremendously formed about the power of toreign countries. upon the subject. It has even been said, by It is our opinion that the policy of England The claims are entirely different from those some of them, that the despotic powers of Eu- always has been to hide her strength. It may rope might unite together, make a descent be wise policy, and it may not-we have no upon England some fine morning, with an ar- occasion to discuss that point now, we only phlet by the Hon. Edmund Burke, ex-Commy of whiskered pandors and fierce hussars, wish to present tacts, for true information to missioner of Patents, who was not himself acand, after Frenchifying and Russianizing her, our people. We have presented the tonnage quainted with them until he left the Patent eating up all John Bull's roast beef, and sup- of the steam vessels of three British cities, and ping up all Sandy's kail brose, would make di- we have rather under-rated it. If we allow rect for Manhattan Island or Chesapeake Bay, | an average tonnage of 200 tons to all the merand soon make short work with our Republi- cantile marine there, it will amount to 236,400

We have seen a statement in the Cincinnati Gazette, about so many English steamboats being below 100 tons burden, and that we had no such class here. This is true, but every one of them are under-rated; and for all, the very smallest is fit for sea. One single Glasgow Company (the Cunard), has seven Atlantic steamships with a tonnage of 13,100 tons, and this force is to be increased about 6,000 tons. There are at least 100 steamships of 1000 tons burden, each of which, upon an exigency, could be drafted into the British navy, and, in a few days, armed and equipped, grave beneath the waters of our seas, before not for defence, but offensive operations. The statements that England may be invaded from France, is all sponge cage and Cologne water. Whenever her dockyards are active all the European powers shake; they are vulnerable power of their own country. The navy of to her. She is able, in two weeks, to block-England is the largest in the world, and next ade all the ports of Europe, and defend her

the conclusion which we draw from them is, have of steam vessels, 1391-some of them that our navy should be increased with four steamships of great power; and the Collin's or five new steamships of the first class, as have been introduced into the present Consoon as possible, not for fear of the Cossack or they can be turned into war vessels in a very | Frank, of Europe, but to protect our fast-grow-

#### History of the Re-Issue of the Woodworth Patent.

It is well known that a re-issue of the patent of William Woodworth, for improve-Congress, for the benefit of Woodworth's heirs

alone has 333 steam vessels, with a tonnage of | in one day-the next after it was presented. 102,000 tons. The city of Glasgow has 88 Mr. H. A. Sylvester was the acting Commissteamships, all fitted for sea, with a tonnage sioner of Patents, who knew nothing about City Hall clock, in the Park ; well, there was of 34,000 tons. In Liverpool there are 99 Mr. Ellsworth's decision, nor the previous steam vessels with an average tonnage of history of the patent; and neither Mr. Keller nor Mr. Fitzgerald, as it was the duty of the figured the old one, and which rendered an tonnage of steam vessels amounting to 157,059 latter, especially, to do, gave him the least in- eye-glass somewhat necessary to distinguish formation on the subject. The re-issued pa- the hands. The great benefit of glass dials tent is the one now used in our courts as the for public clocks, is the rendering them invention of William Woodworth, and it is the transparent, so that when a light is placed inone sought to be extended by the present Con- side, the hours can be distinguished at night as gress. It will not expire until Dec., 1846. well as by day. The constructors of the dial of the original patent.

This history, we have obtained from a pam-Office, and was employed, in the course of his tent Office, in relation to the re-issued patent. secured to the glass by screws.

This strikes us as being one of the most extraordinary transactions that we ever heard of being perpetrated by Government officials in any country. It should be rigidly investigated by the Patent Committees of the Senate and House of Representatives. In is to be a chronometer clock. view of these facts, there is but one course open, we think, to the gentlemen composing these committees, and they do not require us nor any other person to tell them what it is.

#### Mind your Business.

It is really vexing to us to read, as every man should, some of the speeches of our Senators in Congress. We have read the remark by two of our Senators, at least, stating that however much they sympathized with the oppressed nations of Europe, they never would join in an alliance with tyrannical England. All right. Has such an alliance been proposed ? We have not been able to come across any account of the proposals. It would be well for people to stick to their legitimate These are our views on the subject, and business-discuss the affairs of their own country : "mind their business," that's their duty. In looking over the Resolutions that gress, we really feel ashamed of the conduct and ignorance of some of the honorable gentlemen in both branches, but more especially do we feel chagrined at the impertinent interference in the affairs of other nations, to the neglect of our own. A resolution is introduced about interference in the affairs of other nations, and, lo-and-behold ! a dozen long speeches are made, every one travelling round about European history, and ending without the least resemblance of anything like "minding your own business." Another introduces a resolution about Exiles from Ire- whole weight. If he is 150 lbs. weight, it remade, and nota soul of them can tell anything sure to balance that, for the atmospheric presnators, men with a reputation for law know- earth's surface, therefore  $10 \times 15 = 150$  lbs. ledge, are exceedingly ignorant of the laws of. This pressure must be on one foot, while the foreign countries, and with this ignorance they other is being moved forward. The courage have the foolish habit of "not minding their required to perform the feat is not small, and but merely noticed in the telegraphic reports. boards. It is a shame to our country, that our Senators tions,-never claimed by old Mr. Woodworth, cuss business quite foreign to their legal duhave no fears of them being destroyed by fo- this affair; Mr. Ellsworth refused, and said if Look into the Patent Law strictly, and see if lation, of a good dwelling or school house in reign powers, even although England was he was urged to a decision, he would decide it requires to be amended, and if it does, do it this city (New York). Our people should But there is a most lamentable general igno- plication and old patent were then hastily ing the Woodworth monopoly, and see if the

# Pacific.

Capt. Synge, of the English navy, has read two papers before the Royal Geographical Illinoistown on the 7th inst. There was a then she has 75 steam vessels, ready for war ed in his place. Mr. Burke being absent in Society, on opening up communication beat any moment, the average tonnage of which New Hampshire, Mr. Keller, who had become tween the Atlantic and the Pacific, through the is 800 tonseach : some of them are very small a patent agent, presented, on the 7th July, two St. Lawrence and the Great Lakes. Sir Roand some very large, but the very smallest is months after he resigned, an application for derick Murchison thought it could be done, fit to cross the Atlantic. The commercial the re-issue of the Woodworth patent. This and compared the project to the uniting of the were consumed with all their contents, consteam marine of Britain numbers 1184 steam- application was examined, passed by Mr. Fitz- Black Sea and the Baltic, by Peter the Great sisting of two hundred and fifty bales of cot-

Glass Dials for Public Clocks. A new glass dial has been furnished for the much need of it. The new one is in one piece, transparent, without the dark seams that dis-

were Messrs. Sherry & Byram, of Sag Harbor, Long Island.

We learn by "The Corrector," of Sag Harbor, L. I., that Messrs. Sherry & Byram have completed new glass dials for the clock in the City Hall of that village. Each dial is 7 feet in diameter, and made of one piece of glass, profession, to examine the Records of the Pa- with the figures and minute marks of metal,

The Common Council of this city, we have been told, have contracted with the above gentlemen, for a new clock. for the cupola of our City Hall, which is to be warranted not to vary two minutes in twelve months. It

We are glad to see that transparent dials are becoming more common on public clocks. Every village should have one clock with a transparent illuminated dial. In any place where gas is employed for public illumination, it is so easy, and costs so little to maintain a light in a transparent dial, that we have no excuse for any village, town, or city, which does not maintain one. Before we had an illuminated clock in this city, we directed attention to the subject a number of times. Our remarks, we believe, did not fall like water on the flinty rock; and we hope the few we have now made will have some effect in extending the application of illuminated dials to all public clocks throughout our country.

### Walking Like a Fly Head-downwards.

A Mr. McCormick has been rather astorishing some of the New Yorkers, during the past week, by walking on a polished marble slab, head-downwards, in one of our amphitheatres. It is somewhat frightful to see a fellow mortal perched up in mid-air, with his head to the ground—but a long way above it—and bis feet to the roof. It is the first feat of the kind ever performed, so far as we are aware, and McCormick has been dubbed with the title of Professor, for his scientific performance.

The feat is performed upon well-known principles of science, by using air pumps, and working them step by step, to extract all the air under appendages on his feet, so that the outward pressure on one foot will exceed his about the facts of the case. Many of our Se-; sure is 15 lbs. on every square inch of the own business." We see a necessity for speak- the labor is very severe and tedious. It is ing thus, for while we see flaming patriotic needless to say, that although the polished marspeeches made about liberty, tyranny, &c., the ble slab is the greatest wonder to some, he important business of American patents is | could not perform the feat on rough porous

#### 2220 July 1949 Ventilation.

On our proper page there is an advertisement of Henry Ruttan, Esq., of Coburg, Canada, to which we wish to direct attention.

We learn from the Aurora (Ia.) Standard. that ground was to have been broken, and active operations commenced, on the Ohio and Mississippi Railroad, opposite St. Louis, on Monday, 2nd inst.

The ceremony of breaking ground on the Ohio and Mississippi Railroad took place at very large attendance.

A train of six cars, on the Georgia and Central Railroad, took fire on the 12th inst., and on.