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"WE GO WHERE DEMOCRATIC PRINCIPLES POINT THE WAY ;--- WHEN THEY CEASE TO LEAD, WE CEASE TO FOLLOW."

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TERMS.

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From the New York Herald.

THE CALORIC SHIP ERICSSON. Successful Trial Trip-General Description of the

Ship-Another Great Commercial Enterprise. In the great commercial and shipping circles of the world, nothing has excited more interest of late than the novel discovery and enterprise of Captain Ericsson, by which steam as a motive power is to be supplanted by caloric, or heated air; and nothing but the successful application of the actual test could remove the *kepticism with which, generally, the project has been viewed. This test has, however, at length been furnished, and now all doubts of the practicability and importance of the invention are morning down the bay of New York, and from an inestimable benefit on mankind.

Tuesday morning, and started from Williamsburg between 9 and 10 o'clock. At 9 h. 55 m she passed the flagstaff on Governor's Island, and at 10 h. 36 m. and 30 seconds she was abreast Fort Diamond, thus making a distance of seven and three-eights miles in thirty-four minutes and thirty seconds. From thence she proceeded down the bay, rounded to below Spithead buoy at 11 h. 21 m., and there anchored in consequence of a snow squall. She returned on Wednesday, and anchored off the Battery at 2 the stated points on Governor's Island and Fort Diamend being accurately known by triangulafourteen miles an hour. The consumption of draws 16 feet 10 inches on an even keel, this concerned in the enterprise.

ty years been ripening in the brain of the inventor, but which, from the incredulity and opposition he encountered among men of capital in his own native country, in England, and in John B. Kitching, Esq., who appreciated and teen berths, and conveniences for bandboxes and relied on his talent and genius, determined at all risks to enable him to make the experiment on a scale worthy of the magnitude of the issue. the is extremely sharp in the prow. She has no figure-head. Her stern presents the device by Captain Ericsson a high tribute to himself. but the flattering device which was placed upon the chief two serve as chimneys. Around their to stow themselves away under the tables and tain Ericsson attains this desirable uniform ac-

tops they are ornamented with gilt rings and moulderings. These gilt ornaments are now, after ten days' firing, perfectly bright. Entering the spar-deck, the absence of any crank hatches, and a clear deck for two hundred feet on each side of the deck-house attract the eye-The berth-deck likewise presents an uubroken both sides.

As a model of naval architecture, there is not can compete with the Ericsson for graceful proportions and symmetry of build. All who have seen her concur in the expression of admiration any aid from her machinery.

For obvious reasons, those interested in the undertaking have observed great caution and jealousy to prevent any knowledge of the construction of her machinery, &c., from getting abroad. To guard against this, portions of it were made at various places-New York, Philadelphia, West Point, &c., from plans and specifications furnished by the inventor. So perfect and true were his calculations, that every piece of the machinery thus made, fitted in with the utmost exactitude, so that, to give the language tissue paper could not be put in between the joints. This circumstance, in itself, speaks well for the great engineering skill of its constructor. The same jeslous caution was observed in permitting strangers on board. The exdispelled. The Ericsson, constructed on the clusion of all outsiders has been very rigidly ennew principle, made her trial trip on Tuesday forced, so that the hundreds whose curiosity brought them to visit her were forced to content the complete triumph with which the experiment | themselves with a distant inspection. Thus, up tended, there need now be no hesitation in to the present time, no correct description of acknowledging caloric as a great natural ele- her has appeared in type ; and we therefore ment adapted to locomotion, destined to work a feel confident that that which we now present to complete revolution in navigation, and to confer our readers in relation to this remarkable vessel will be read with an interest proportionate to embodiment.

Let the reader, therefore, accompany us as we are chaperoned throughout the ship by her gallant and polite commander, Capt. A. B. Lowher, to whose ability and experience as a navigator she has been well confided.

Let me first show you, says our guide, the

freight deck, and then we will ascend and examine her, in detail. To the freight deck, therefore, we descended, and were pointed out its capacity, extending as it does some 260 feet. It o'clock in the afternoon. The distance between is entirely free from obstruction of every kind, excepting only a space along the middle, which contains the cylinder, enclosed within tion to be seven miles six hundred and sixty strong bulk heads. None of its room is to be yards, the speed attained was as stated, about devoted, as in steamers, to the carrying of coal which is stowed away in sufficient quantity each fuel is ascertained to be only six English tons per side of the engine. It is calculated thus to car- sofa is arranged with a marble slab table in twenty-four hours, a saving as compared with steam- ry 1,400 tons of teas, or other light merchan- front of it. There are besides in the room sevthips, of more than eighty per cent. As the ship dise ; or, if engaged in the Australia or California trade, it is well adapted for accommodaperformance at a first trial has astonished all ting some four or five hundred passengers. A ventilator on a new principle, and connected The great idea which had for more than twen- with the machinery, extends to this deck .-About midships there is a sort of a square en- cine chest. The apartment is one of the most closure, which, we learned, communicated only with the main deck, and which has been fitted to the purpose of a ship. up for female pervants of cabin passengers .-America, he had been unable to realize, has thus This is a great improvement on the present been substantiated as a real entity. It was for- plan, which makes little or no provision for this tunate for Captain Ericsson and for the world class of travelers. We found this room neatly lighted room, painted in imitation of oak, hav-

the various et ceteras of waiting women. From the freight deck we ascend by a wide stair-way to the main deck. This is occupied For this purpose the latter furnished half of from stem to stern by sixty state rooms; those the capital necessary for the enterprise, and dis- in the aft cabin fitted up with two berths each, posed among his acquaintances of the remain- and those in the forward cabin with three. We der of the stock. By this means, and repard- inspected the latter portion first, and were struck less of expense, the clipper ship whose first per- with the elegance and taste with which it was formance we have recorded was built at the yard fitted up. We were immediately reminded of of Perrine, Patterson & Sack, and fitted up with the motto, which we saw in a conspicuous posi- mess, &c.; and aft is a smoking room for the enginery on the caloric principle under the im- tion on the board-"Everything in its place; mediate direction and supervision of Capt. Erics- and a place for everything"-and we felt the son. The vesses measures 260 feet in length of conviction that this maxim was not lost sight of deck, and 40 feet in breadth of beam; her in the construction and fitting up of the ship. depth of hold is 27 feet, and her burden 2,200 | The state rooms communicate direct with the tons. Like the Arabia, of the Cunrad line, she saloon by a gothic arched door, which opens on has but two masts and like our swiftest clippers, every two rooms. They are richly carpeted, and are lighted by day with deck and side lights. and by night with a three-sided lamp, so fitted of two figures, allegorical representations of the | in the panelling as to furnish a light at the same United States and Great Britain placing a wreath | time to two rooms and the saloon. These lamps around the brow of the inventor. She had been are provided with a lock, and are to be in charge originally named the Caloric, but in compliment of one of the employees. The berths are handto the genius who planned her, her name was somely fitted up; the mattresses are composed changed to the Ericsson. This was considered of the best curled hair; and the bed-clothe are also of the whitest and finest texture, and marked with the word Ericsson in red letters. the stern without his knowledge overwhelmed A marble slab wash-basin and appurtenances portion assigned to the machinery. This part him with emotion, and we are told that when he belong to each room; and on the side opposite is characterized by the same neatness, and exfirst saw it he wept like a child. The Ericsson | the berths is a sort of day sofa, which answers presents a very handsome and unique appear- the very necessary use of a receptacle for soilsace, from the four white funnels which rise ed clothes and boots. A small bronzed framed other part of it. Apart from the main principle, sage of the act of 17th of April, 1849, a new Adjutant General, and required of each newly some ten or twelve feet over the promenade deck, mirror, with a pivot which permits it to be turnand which somewhat resemble Ionic pillars with- ed in every direction, completes the furniture of Ericcsson consist in dispensing with the centre out the capital. They are thirty inches in di- these apartments. We must not forget to men- shaft, whilst at the same time two pairs of work-Ameter, and are supported by octagonal pedes- tion that a fine room is also fitted up here for ing cylinders are employed, imparting a contintals, also white. Two of these columns, or the accommodation of the waiters connected their accustomed tallion, and twenty dollars for each regiment he the appeal will at once be made, when foreign

for them, and all the conveniences of waterpipes, wash-basins, mirrors, &c.

The forward cabin saloon is very handsomely furnished, and presents a chaste appearance, from the gothic style of the doors, which open into the state rooms, and from its general decoline, with state-rooms along the entire ship, and rations. The chairs and sofas are covered with passages between the fore and aft saloons on crimson plush, and are of the neatest pattern. The carpets are of a very rich and beautiful material, the design representing the American a vessel in our splendid merchant marine that | flag interspersed with the forest foliage, &c .-The panels are painted white, shaded with a light tinge of purple, and decorated with gilding. The device round the cornices, on raised of this beautiful ship, and in their opinion of gilded work, represents Neptune in his chariot, her superior sailing qualities, independent of drawn by sea monsters. In fact, the only point of listinction between the aft and forward cab ins is, that the rooms of the latter are fitted up with an extra berth; and, if it were judged advisable to have a uniformity of price for passage, the plan could be easily carried into execution, it being only requisite to take away the third berth from each of the forward cabin state rooms. For the saloon there is a steward's pantry amidships, provided with neat delph, glass, cutlery, &c., and communicating by a dumb waiter with

The state rooms of the after cabin, which is of one of the persons engaged in it, a sheet of mercly separated from the other by passage doors, are in no respect different, except in the numbers of berths from those we have just described. They range along each side of the deck, the central space being occupied with the machinery, to which several doors admit an entrance. These doors have a circular pane of glass to allow passengers to witness the working of the machinery. A barber shop is fitted up in the state room through which the shafts runs, the corresponding room on the opposite larger and furnished perhaps in a more extensive style than the forward cabin, but the character of the furniture and fittings is precisely The Ericsson was put under caloric early on | the invention, of which the Ericsson is the first | the same. This saloon is heated by a hot air apparatus, and ventilated by the same means as is the freight deck, except that here the ventilator is shut in by a stained glass frame. Hot and cold air can be supplied to any part of the vessel from the engine. The peculiar construction of the ship, and comparatively small room occupied by the machinery, afford an inner promenade round the whole course of the cabins, extending some five hundred feet. On the upper deck the space between the cabins and the side of the vessel is some twelve feet wide, extending also round the ship.

The ladies' boudoir in the after cabin is handsome semi-circular apartment, furnished with great elegance, and richly carpeted. It is entered from the main saloon by two doors on opposide sides; round the bend of the room a eral ottomas and luxurious arm chairs, covered with rich crimson plush, and the walls are ornamented with mirrors. There is also a neat library fitted up in the room, with mirror doors, the lower part of it being reserved for a medichaste and elegant we have ever seen assigned

From the main cabin there are four stairways to the upper deck. Here is the dining hall for the aft cabin passengers. This is a fine well that one of our own enterprising merchants, and comfortable furnished, with twelve or four- ing mirrors and windows in each alternate section of panels. There are several book-cases in the room, which is also supplied with comfortable sofas. Leading from it forward, we come upon a small circular apartment, containing a glass case for the ship's plate, &c., and here, also, is the main pantry, a room for the storekeeper to issue wine, and a water-tank with filter capable of holding one hundred and five gallons. The remainder of this deck, forward, is occupied in kitchen, steward's rooms, officers first cabin passengers, with a fine comfortable wheel-house, in which is a place for stowing am-

One of the greatest peccliarities in the fitting up of this ship is the absence of all angularities. and one cannot but admire the skill with which every available spot is adapted to the best use, while all arrangements are of the most regular kind. Nor in the attention to the comfort of the passengers has the comfort and well being of the sailors and firemen been overlooked; the forecastle is neatly fitted up with berths, water pipes, basons, mirrors, library, &c., and on the larboard side the like accommodations have been provided for the firemen.

Having arrived thus far in our gratifying in. spection of the Ericsson, we were led to that hibits the same proofs of superior skill and management as are observable throughout every the distinguishing feature of the engines of the

disewhere. Fourteen double berths are provided | tion presents one of the most elegant mechanical combinations ever produced. Each pair of working cylinders, with their appropriate supply cylinders, are placed parallel to the ship's centre line; one pair forward of, and the other aft the paddle shaft. The supply cylinders being inverted and placed at some distance above the working cylinders, with their open ends presented to the open ends of the working cylinders, a space is formed between the two, which contains a triangular lever for transmitting the verticle energy of the working pistons to the crapk of the paddle shaft by a diagonal movement .-The mean angle of their diagonal being about forty-five degrees abaft the verticle plane of the paddle shaft in the aft engine, and forty-five 4-13 muskets. degrees forward of that place in the forward engine, it is obvious that the forces of the two engines will be exerted nearly at right angles to each other. Hence the double cranks, and the objectionable centre shaft of the marine steam engine, are obviated, a single crank placed in the middle of the caloric ship serving to transmit, in a perfect manner, the continuous rotary motion required in turning paddle wheels for ocean purposes.

> In further comparing the machinery of the Ericsson with the double marine steam-engine, will be found that the four side levers have disappeared; the cross heads and cross tails likewise; nor are the four side | rods to be found; and, above all, the absence of the parallel motion, with their nicely-adjusted joints, and levers for converting the curved movements into straight ones, claim attention. In place of all these parts will be found simply a triangular lever for each engine, with a link and connecting rod for transmitting the power of the pistons to the crank of the paddle shaft. Again, the four huge boilers of the ocean steamer give place to four small furnaces, erected under the working cylinders. Force-pumps, brine bump, safetyvalves, &c., and the net working of connecting pipes, which fill the bottom of the ocean steamer, have . i disappeared ; and in place of gaugecocks, brice gauges, injunction-valves, &c. &c., calling incessant vigilance on the part of many minds and hands at once, a single handle attached to the valve gear of the engines regulates at the will of a single mind the movements of a caloric ship. Starting, stopping, backing, and checking being effected by the single handle without any regard to particular conditions, so essential in working the engines of the ocean steamer. The arrangement of the caloric ship being such that the required air for the engines from 50 to 70 tons weight per hour-has to pass through the fire rooms before entering the sup- for some time the annual sum of twenty-five ply cylinders, it has been found in the Ericsson

> comfort of the firemen. As an engineering achievement, the machinery of the Ericsson is very far ahead of any afloat. The engineer who beholds four open cylinders, each of 168 inches in diameter, with their pistons of upwards of twenty-two thousand supercial inches area, moving up and down | itary spirit at present existing within her borin sight, through a space of six feet, can best ders, and the experience brought home by her appreciate the greatness of that achievement. To the ordinary observer, the movement of the whole machine is wonderful. And we cannot but feel extremely gratified that the caloric principle was introduced to the world on a scale so commensurate with its importance, and that our metropolis has the honor of initiating it.

PENNSYLVANIA MILITIA. THE ADJUTANT GENERAL'S REPORT.

We publish below a part of the Official Report of Adjutant General James Keenan-to which reference was made in the Message of the Gov- property for the State, but there is nothing in ernor for ail information regarding the Militia of the "revised militia law," rendering it obligatothe Commonwealth. The General takes espe- ry upon County Commissioners to furnish the cial pride in this department of the Government honor on the State, and providing her with a well trained, well armed citizen soldiery, the surest safeguard of peace, order and property, in times of threatened turbulence and peril.

Prior to the war with Mexico, the "Volunteers" of this State were, with few exceptions, Adjutant General of the State. well armed and oquipped, but upon the depar. ture of some of our most flourishing companies for the seat of war, their arms and equipments having suffered materially by the enlistment of ted States Army, either disbanded or neglected their usual trainings, consequently their arms and equipments suffered so seriously from neg- turn. lect as to render most of them unfit for ser-

After the restoration of peace and the return of our volunteers, and especially after the pas- followed the precedent established by the late impulse was given to the military spirit of the elected Brigade Inspector the usual bond. State, and not only did those companies of re- By the tenth section of the revised system, not only in our agricultural and mineral wealth, pipes, carry off the air from the engine, and with the vessel, who are obliged on other ships steam engine. The arrangement by which Cap- trainings and duties of the citizen soldier, re- shall have organized within the year. Provi- foes or intestine feuds shall threaten the secu-

of the State, consequently the demand for arms rapidly increasing.

Each State is credited by the War Department with its annual quota of arms at terms of muskets. The number of muskets supposed to be due each year, is based upon the quota of the preceding year, subject to correction when the next return of the State militia is made, should the actual quota resulting therefrom require it. From a statement furnished me by the Ordnance Department at Washington, it appears that a balance was due the United States, by Pennsyl- | the "uniformed militia." vania, upon the 6th of September, 1851, of 1970

The quota of this State, for the year 1852, by the return of the previous year, amounted to 1825 muskets; but from this the Ordnance Department deducted 145 to correct the apportionment of 1851, leaving a balance to be accredited to the State for this year, of 1680 muskets .--Of this quota I drew 850 muskets, with equipments, and the balance in cavalry, artillery, and rifle arms and accontrements, in all equal to 1682 muskets. All of these have been distributed, and with the exception of a few rifles, the Arsenals of Pennsylvania contain no new arms of any description, and we are indebted to the United States 1827 muskets.

In view of this fact, and the probability of a refusal by the Gener 1 Government to issue arms to this State for the year 1853, I have ordered the superintendents of the Arsenals to have to draw our annual estimate of military propcleaned and repaired, all the arms worthy of re- erty. pair within their respective Arsenals. This is

pendages, were purchased from the Secretary | should be near the property committed to their of War, at an average value of but a fraction keeping. over \$2.13-100 per musket, or \$2130 per thousand, and I presume that this State would be furnished with any necessary amount on similar

Previous to the passage of the act revising the militia system, the tax paid by the Commonwealth for the support of the militia, averaged thousand dollars-since then, the annual milithat the temperature is actually too low for the tary expenditure of the State has scarcely exceeded five thousand dollars-thus nearly twenty thousand dollars are annually saved the State by the existing system, and it would be but an act of justice to expend a portion of that sum for the benefit and encouragement of the uniformed militia. Pennsylvania, with the milenergetic young men from the camp, the bivouac, and the battle-field, has only to furnish her militia with arms and equipments, to render them at least as numerous and effective as those of any other State in the Union.

The militia law as revised by the act of the 17th of April, 1849, though immensely superior to the system previous to its revision, is nevertheless deficient in many particulars.

The annual return of the militia of the State by the Adjutant General, to the Adjutant General of the United States Army, is the basis upon which is drawn the arms and other military Adjutant General with a list of delinquent milicommitted to his care. He feels confident that tia men in each county. The result is, that but if his suggestions be carried out, and the prop- few such returns are made, and our quota of er legislation had, the military system of Penn- arms is drawn from the basis formed by the resylvania may be made a model one, reflecting turn of the uniformed militia alone; hence, the State suffers annually an immense loss of arms and military property. I would, therefore, respectfully suggest, that County Commissioners be required to make such returns annually, under the seals of their respective offices, to the

Moreover, by the neglect of some of the Brigade Inspectors, I am not in receipt of the returns exhibiting the number of uniformed miliwere thrown aside, and a new supply furnished tia in their brigades. As a remedy for this, I them by the War Department. Other corps would propose that each County Treasurer be required to withhold a portion of the bill of the some of their most efficient members in the Uni- Brigade Inspector whose account he may settle, until presented with the acknowledgement of the Adjutant General of the receipt of such re-

> The "revised militia" does not require a bond from the Brigade Inspector previous to his entrance upon his functions. I have, however.

turned volunteers (with few exceptions) contin- the Brigade Inspector is allowed "ten dollars our internal improvements, our common schools. ue their existence as military bodies, but also for each company, fifteen dollars for each bat- and our admirable system of civil government.

New corps also sprang into existence in all parts | any brigade in any year, then and in that case, he should receive ten dollars per company for suddenly became very great, and has since been | inspecting the first five companies, if there be five companies in his brigade."

The tendency of this section is to thwart or-

The organization of one company in a brigade, would deprive the organizing officer of the pay allowed him inspecting the first five companies above mentioned; hence it is not likely that that officer would encourage any such organization. By doing so he would do injustice to himself, and by a refusal, he would do injustice to

By the same section, the amount to be paid each Brigade Inspector is not allowed to exceed one hundred and fifty dollars per annum. I concur with my worthy and experienced predecessor, General Irwin, in recommending for that officer a fixed salary of two hundred dollars per annum, with an allowance for expenses incurred in public service, for upon his promptness and attention mainly depend the success of the existing military system; and the adoption of this course would be a sufficient remedy for most of the evils above enumerated.

The amount allowed for assessing delinquent militia men is likewise too small; hence, in many brigades, this assessment is almost entirely neglected. This requires an immediate correction, or without strict attention to and . faithful performance of the duties of that assessment, correct returns cannot be made wherefrom

I would likewise recommend to the Legislabeing done rapidly, and already nearly two ture and your Excellency, the passage of an act thousand stand of arms have been rendered fit allowing to the superintendents of the State Arfor service. These, however, are without ac- senals, in addition to their yearly salaries, . contrements, and even were they accompanied specified sum as a commutation for house rent, quate to supply the great and rapidly increasing | the superintendent at Philadelphia, the annual demand. I would, therefore, respectfully sug- sum of two hundred dollars, and to the superingest that an appropriation be made to purchase | tendents at Harrisburg and Mcadville, the annuequipments for these repaired arms; and also at sum of one hundred each. This would be to purchase for the State five thousand stand of but just, for the reason that the salaries of these officers are too small for the duties required - 1 to see the expensiones

> I have visited and inspected the three State Arsenals, and take this opportunity of commending the fidelity and attention of the officers having them under their control. I have given orders for such repairs upon the Harrisburg and Meadville Arsenals, as I have deemed necessary. The Philadelphia Arsenal, however, I have not thought worthy of such attention. It is an insufficient building, insecure, badly situated, and pent up within so small a compass as to be almost unfit for the purposes for which it was in-

I would recommend the sale of the lot on which it is situated, and the purchase of other grounds, whereon to erect an Arsenal, that in time of riot or insurrection might serve as . rendezvous and strong hold for the soldier, and in which military property might be secured from the hands of the lawless; an Arsenal worthy of the State, and not serving, (as has been truly said of the present building,) to humble the honest State pride of the Pennsylvanian.

I would make some suggestions concerning the office of the Adjutant General, such as the accessity of attaching to that office a clerk, in order to do justice to its immense correspon. dence; the propriety of referring all military affairs to that department alone, and likewise of requiring that officer to perform the duties of Inspector-General of the Commonwealth: but the necessity for these arrangements is so apparent, and the reasons so obvious, that it is not necessary to encumber this report with the details. However, I may say that the character and duties of the office of the Adjutant General of the State should bear a proper analogy to those of the Adjutant-General of the United States, and in this suggestion every gentleman familiar with military affairs will, I feel confi-For reasons not proper perhaps for me to con-

jecture, nor necessary to detail, our militia sys-tem has been subjected to opposition and neglect. It was a foundation of our fathers-an institution of the patriarchs of the Commonwealth, who thought there was wisdom in the saying, that "in peace is the time to prepare for war. We should ever remember that the lesson which this adage teaches is not a lapted to the National Government alone-that the Republic is a Republic of confederated States, each one sovereign in all things, except those expressly coded. Pennsylvania can, when foreign invasion, domestic insurrection, or war declared, "to secure indemnity for the past and security for the future" demands, furnish as gallant a body of citizen soldiery as any State in the Union. The functious of the State Government should

not be exclusively directed to and expended in the civil department. Should the National Government call for troops, the call would be made upon the State, as such, for her quota, and Pennsylvania should hold herself ever ready, in all respects, to respond efficiently to such a call. State pride should find objects for its indulgence, but also in our military organization, to which