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NO 304

NAVAL CONSTRUCTION.

Engine and Fire Room Temperatures on a Warship.

The great internal heat that rendered the Amphitrite inefficient was due to lack of provision for ventilation in the engine and boiler spaces. These regions were so hot that little useful work could be done in them, and the lack of draft, smoke coming out freely from the holes in the furnace doors, and from two small ash hoist tubes in the central part of the fireroom and a small escape hatch forward, there were no openings from the fireroom to the outer air.

The boilers reached nearly to the iron deck of the vessel, and as the air was between the deck beams and no escape it became greatly heated and by roasting in those spaces. It was impossible for a man to go on the gratings behind the upper parts of the boiler after they had been under steam a few hours, though the main and auxiliary stop valves were there. A board of officers that reported on temperatures in the vessel got at this place only by inserting a thermometer on the end of a long pole, and this thermometer was fished out and taken to a place where it could be read, showed 202 degrees.

The superstructure containing the main and wardroom was directly above the engine and boiler rooms, with a wooden floor laid over the iron deck. At sea, with the doors closed, this habitation became exactly as a frying pan on a hot stove lid. The smoke pipe, partly uncovered for ventilating purposes, passed through the center of the wardroom and vigorous radiation contributed its share to the general discomfort. Indeed, in spite of its wooden sheathing, it was so hot as to be painful, and I came to say from memory the temperatures the board reported as being in the rooms, in bureau drawers, in the wardroom table and in other parts of the officers' quarters. It was as high as 112 degrees, and I think great sleep was only a period of unconsciousness, induced by utter exhaustion, and was without restful quality.

The fireroom temperature was never over 150 degrees and often above 170, the engine room ranged closely about 150 degrees. For the first 24 hours the men stood it well, but on the third day seven succumbed to the heat there put on the sick list, one of whom nearly dying. Before the voyage ended 28 had been driven to seek medical attendance.

On the evening of the fourth day out the men had literally fought with fire and had been vanquished. A watch on duty broke down one by one and the engines, after lumbering slower and slower, actually stopped for lack of steam. The ship was allowed to drift inshore on the tide and was finally brought to an anchor in St. John's sound. Though a warship of considerable characteristics and sent on constant service, it is doubtful if the Amphitrite could have gone into action for a longer time or have steamed 100 miles to save herself.—F. M. Bennett, in Cassier's Magazine.

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How much, 12 inches per foot.

and like measure, would it take to build the same house? And what saving would there be if lumber were purchased at \$10 per M, latter measure in preference to \$8 per M of the first?

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TELEPHONE 181

JAMES BARRETT.
Connolly's Wharf.

A Study in Curves.
"Pounder has had to go out of the band."
"What was the trouble?"
"He has got too fat to balance the bass drum."—Chicago Record.

In some portions of Abyssinia the men mark the ears of their women as if they were so many hogs.

Is the churn to be done away along with other time honored domestic appliances? In France a process has been patented for chemically taking butter out of cream. A certain lactic ferment is put into the cream. This coats the fat globules with an albuminous covering. Then the cream is heated, aerated and put through another fermentation, alcoholic, which causes the fat globules to rise to the surface, after which they are gathered and washed. What advantage all this rigmarole has over just plain churning does not appear.

DOOLITTLE'S LITTLE JOKE.

How He Conferred an Honor Upon His Friend, Senator Fessenden.

The old senator was a great story teller and related many interesting and humorous accounts of what he had seen in public life. One of his favorite stories was at the expense of Senator Fessenden, a warm personal friend. The judge and Senator Fessenden had been appointed on a commission, with several others, to treat with the various chiefs of the Sioux Nation on an important Indian question of the day. It was long before railways had been introduced into the far west, and the members of the commission had to travel on horseback. Judge Doolittle was chairman of the commission, but at the conference shifted that duty to the shoulders of Senator Fessenden. The latter was highly pleased at the honor conferred on him and much "puffed up" in consequence. The judge had method in his madness, however, for he had heard of the peculiar reception tendered by the Indians to the spokesman of any party of visiting whites.

At the appointed time the two parties to the conference congregated. There were probably 200 Indian chiefs present, with their wives. Senator Fessenden advanced to do the honors for the commissioners, when, to his dismay, the whole body of Indians, squaws and all, advanced and, after embracing the chairman, gave him, according to their custom, a welcoming kiss. Judge Doolittle often said he thought that Fessenden never forgave him for the trick.—Boston Herald.

SILVER STATUE STORED.

The Figure Which Montana Sent to the World's Fair Causes a Syndicate Trouble.

The Ada Rehan statue of Justice, about which there has been and is likely to be much expensive litigation, carries an interesting story. Romance and fact are most strangely woven in its history, and the end is not yet.

The expensive piece of statuary is now put away in the store of S. Barnum & Co., awaiting the final action of the court as to its disposition. The statue is the working out of an idea advanced by a wealthy Montana man, Judge Bickford of Helena. This gentleman was the chief promoter of the enterprise and is the president of the company.

As is well known, the statue was shown at the World's fair as a Montana exhibit. The figure is considered as near the ideal representation of the figure of Justice as it is possible to make.

It is popularly supposed that Ada Rehan posed for the figure, but this story is open to all sorts of argument. One version, which finds many believers, is to the effect that an Illinois girl posed for the figure. Whether or not the praises she received for her entrancing beauty and superb figure had the effect of turning her head is not entirely clear. At any rate, the story goes that the misguided girl strayed from the path of rectitude and forsook all her friends until such a time as she was forsaken by them. No matter whether this story is true or not, it sounds well and lends an added if unhealthy charm to a discussion of the famous work of art.

The statue is owned by the Montana Silver Statue company. It stands nine feet high, and its weight approximates two tons. It is made almost entirely of Montana silver, with as much alloy added as will insure lasting qualities. The cast was made in Chicago. The first experiment was a lamentable failure, the surface of the figure being full of little holes and not at all smooth. Then an expert was brought all the way from Paris, and he was successful with the casting. The figure stood out a perfect likeness of its beautiful model.

It is impossible to place even a conservative estimate upon the value of the statue. The amount of silver it contains, reckoned at bullion rates, is considerable, of course, but its chief value is as a work of art. A representative of the stockholders of the company declares that \$60,000 is not by any means too high an estimate of its worth.

When the World's fair had closed, the owners of the statue cast about for some plan to make it a paying investment. They decided, after due deliberation, to display it in show windows of large stores over the country for a proper consideration. The plan proved a great success, and but for the unfortunate fact that the stockholders got to quarrelling among themselves would be followed today.

There were two factions among the stockholders. One, led by F. D. Higby, had charge of the exhibits. The other faction claimed, whether justly or not is a matter for the courts to determine, that Mr. Higby was not acting in good faith and did not make proper returns of business done. The controversy reached a climax in December, 1896, at the time the statue was being exhibited in the show window of Crosby Bros. of this city.

The secretary of the company, who represented the faction opposed to Higby, arrived in Topeka the evening before the statue was to be moved to the next advertised point. That evening he went to work quietly and took the necessary legal steps for the detention of the statue. When Mr. Higby appeared next morning to proceed with the business of moving it, he was confronted by Samuel Barnum of this city, who had been appointed as receiver and who immediately took possession of the statue in the name of the law.

This, in brief, is the history of the famous work of art. What the final outcome of it all will be is merely conjectural. It is likely, however, that the difficulty will be settled soon. It is stated that Mr. Higby has a few creditors who are yet to be satisfied. This, it is thought, will soon be done, and then the company will be reorganized on a new basis and the business of exhibiting the statue will be resumed.

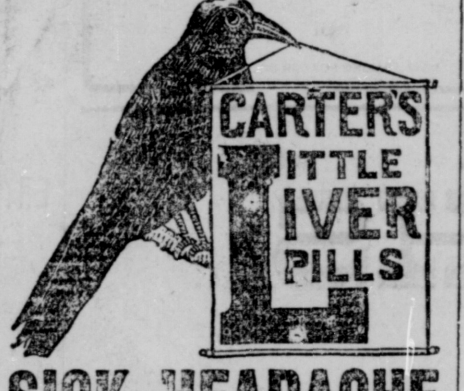
The statue was borrowed by the Santa Fe people for their silver anniversary and was used on one of the floats in the big parade.—Topeka Capital.

The Question

Now is where can we get a suitable Xmas present for the least money. Below will be found a list of a few of our cut prices for the Holiday Season only, which will enable you to decide at once, as the time is now short

- Eight day, half hour, cathedral going, striking Clocks, for \$3.50
- Silver Cake Baskets, (quadruple plate), 2.75
- Napkin Rings, 50c up
- Spoon Holders and Pickle Dishes, 1.50
- A Waltham Watch with Chain (good timekeepers) 7.50
- Ladies' Genuine Gold Filled Waltham Watch, 15.00
- Ladies' Long Chains, warranted five years, 3.00
- Ladies' Solid Gold Gem Rings, (heavy) 3.00
- Brooches, Cuff Buttons, Stick Pins, Chains, Charms, etc, at extraordinary low prices. Repairing promptly attended to by a competent person. Clocks, Watches and Jewelry.

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