# THE MODERN STEAMSHIP

#### ELECTRIC MARVELS ON BIG ATLANTIC LINERS.

The Latest Cunard Steamers Utilize Electricity for a multitude of Purposes

Although much has, from time to time, been written about the two leviathan Cunard steamers, Lusitania and Mauretania, yet compara-tively few can grasp the significant part which electricity plays throughout these ships. A few facts relating to the electrical equipment of the Mauretania may be of inter-

Apart from the 70,000 h. p. of the turbines which propel the ship through the water, the electrical power, which is supplied by four

generators, represents an additional 2,144 h.p.

Electricity is used not only for illuminating the ship at night, but for a multitude of other purposes, eight for baggage and mails, and two smaller ones in the pantries. Electrically-driven cranes and winches are also provided. It may be of interest to know that 6,300 electric lamps are installed throughout the ship, giving the enormous to tall of over 100 are installed throughout t the ship, giving the enormous total of over 100,000 candle-power. For heating the first-class quarters sixty electric radiators have been fitted, to say nothing of some forty-three heaters in the bathrooms for use during the cold weather.

Others there is an intense pain and feeling of nausea after eating. Sometimes gas presses on the heart and leads the sufferer to think he has heart disease. Sick headache is another frequent and distressing symptom.

Mr. Alex McF.

NUMEROUS ELECTRIC FANS are used for ventilating the varicus rooms, and are so arranged that they can supply either warm or cool air according to the weather, while the air in the cabins can be totally changed six or eight times in an hur. Apart from the above ven-tuting-fans, sixteen larger ones, ct 50 h.p. each, are fitted for sup-

rontage of about 60 feet, and includes a roaster with four vertical spits rotated by an electric motor, these spits being capable of dealing with half a ton of meat at a time.

This is in addition to a smaller roaster with three spits, driven in the same manner. In the bakery learning we alectricity is appropriate to consider the same manner of the same manner. In the bakery learning we alectricity is appropriate to consider the same for man to eat anything we alectricity is appropriate to consider the same for man to eat. electricity is employed to operate raise on the farm for man to eat a large dough-making machine capable of making bread for at least discomfort I had endured for years.

Among the miscellaneous apparatus driven by this wonderful unseen power are three circular knives for slicing ham and bacon, four potato peelers, a whisking machine, al egg boilers, numerous hot-plates for keeping the food warm, five rlate-washing machines, and two twelve-quart freezers for making ice-cream for the passengers, to say nothing of

### THE COLD-STORAGE PLANT

and the electrical printing press which enables the Cunard Daily Bulletin' to be published on board. Some idea of the size of the ves-sel may be obtained when it is mentioned that over 200 miles of wires d cables are fitted throughout the

etric bell and telephone n the Mauretania sur-ing hitherto attempted with ship work. Belle placed over every bed, gether 1,298 electric bellve been fitted in the variof which there are upwards of 100, are to be found in numerous parts to be disposed of at an immense of the ship and in all the best

Apart from the Marconi wireless telegraph outfit, which enables passengers to learn all that is going on in the world just as if they in a first-class hotel in London instead of miles from land, means has stead of miles from land, means has been provided for coupling the ship but to the city telephone exchanges bought more land for hard cash up to the city telephone exchanges when lying alongside the landing stages at Liverpool or New York, thus enabling passengers to communicate with their friends or to transact business the moment the touches the quay, or to say of the city up to the time

## THE BOAT LEAVES LAND.

Electricity also plays an important part in the safety devices on the Union. Spain possessed Louisi-board this wonderful ship, as, for instance, showing the officer in had the rest.

pushes in prominent parts of the to sell it to the Yan

vessel.

Four electric searchlights are carried on board, and, in addition to the usual complement of rebuoys which every ship carries, two special buoys have been provided for use at night. These, upon being released by pressing a button, automatically light a flare upon striking the water, thus indicating their position. Mention must be made of the system of electric clocks, which are placed in the various saloons and important situations throughout the ship.

The electric install.

value, or some fifteen times the cost of the electric equipment on an everage Atlantic liner.

#### One Who Had Suffered for Years Cured by Dr. Williams' Pink Pills.

cl of h.p. each, are fitted for supplying forced draught to the twenty-five boilers.

In the extensive kitchens of the Mauretania electricity is called upon to play an important role, and the interest some housewives to that one range alone has a firontage of about 60 feet, and includes a roaster with four vertical mind to give them a trial. I had It is several years since cured, and I have never felt a symptom of indigestion since. I am well known in this locality and you are quite at liberty to use what I say in the hope that it will benefit some

> All medicine dealers sell Dr. Williams' Pink Pills or you can get them by mail at 50 cents a box or six boxes for \$2.50 from The Dr. Williams' Medicine Co., Brockville,

other sufferer.

## KEEN BARGAIN HUNTERS

Yankees Have Bought More Land for Cash Than Any Other Nation.

The maligned ladies who are made fun of in the comic papers, because of their fondness for frequenting sales where everything is

transactions in real estate are conthan any other nation. speculations have been quite outdone. America's first bargain in this direction consisted of the purchase of a whole state, out and out. Some people suppose that England was the only good-bye to friends in distant parts and was the only country which had any settlement in North America when the war of Independence broke out. This was not so, however. England held only thirteen of the States which at present form Spain possessed Louisi-

made of the system of electric clocks, which are placed in the various saloons and important situations throughout the ship.

The electric installation on this ressel represents about \$325,000 value, or some fifteen times the cost of the electric equipment on an eventual entry of the electric equipment of electric to the equipment of the electric equipment of electric to the electric equipment of electric equipment electric equipment of electric equipment of electric equipment electric electric equipment electric equipment electric electr

Uncle Sam's next bargain was the biggest on record. Alaska is a vast tract of country, 580,107 square miles in extent-more than four times as large as Great Britain and Ireland. For a long time it be-longed to Russia; but it was never much good to the Muscovites, and in 1867 the Czar let it be known that it was in the market. Great Britain could have had it, but re-fused to bid. The United States snapped it up for \$7,250,000. They got it cheap, paying less than \$15 a square mile.

Up to now, it must be admitted, Alaska has not paid, for it is mostly a desert of ice and snow. But it is full of possibilities. It contains

a full feeling in the throat. With a full feeling of nausea after eating. Semetimes gas presses on the heart and leads the sufferer to think he has heart disease. Sick headache is another frequent and distressing symptom.

Mr. Alex. McKay, McLellan's Mountain, N. S., says:—"For years I was a great sufferer from indigestion, which was gradually growing worse and worse, and it would be impossible for me to tell how much suffering I endured. At different times I had treatment from three good doctors, but it did not help me in the least. Then I began trying all sorts of advertised medicines, and took ten packages of one medicine specially intended for dispensing but with no heater reading. tically amounted to payment in advance for the promised help.

#### BRITAIN'S BEST BARGAIN.

The "certain circumstances" have not yet arisen, and we have not fought Russia or any other country on Turkey's behalf. So Cyprus is

The British Government holds the record of having paid the highest price ever given by a nation for a pricture. This was \$350,000 given to the late Duke of Marlborough, in 1885, for the "Ansidei Madonna, by Raphael. When his Grace of fered the picture for sale every art gallery in the world was anxious to buy, but Britain outbid them all

Another good bargain was made by Great Britain in 1875. The Suez Canal, which, as everybody knows, is the short cut to Incia. was constructed by a French company founded by De Lesseps, the shares of which were held by pretty well all the Powers. Britain, well all the Powers. Britain, though the nation most interested in the conduct of the canal, had at first no real control over its man-agement. In time of war it might even have been closed to her warships and opened to an enemy.

But the largest shareholder was Ismail, the Khedive of Egypt. In BIG POWERS KNOW HOW TO

GET VALUE FOR MONEY.

1876 he was on the brink of bankrvptcy, and offered his shares, numbering 176,602, for sale. Germany
and France would gladly have
bought them, but they were forestalled by Lord Beaconsfield, who
snapped them up at a total cost of

Yankees Have Bought May I am general
total representation of the products of his being.

"And the airship is certain to
come into general use, and that
within the lifetime of our generabicum, not for freight, perhaps, but
for people surely. In fact, as I look
snapped them up at a total cost of
Into the vears to come. I am cost of this being.

"Ah, yes life is going to be a
within the lifetime of our general
than it is for most of us now. In
many little ways it will be so. Do
you know that in many laboratories
for people surely. In fact, as I look
snapped them up at a total cost of snapped them up at a total cost of \$20,383,110.

This made Great Britain the chief shareholder, and gave her a con-trolling voice in the great water-

The family fortunes of Lord Dudicy, the Governor-General of the Australian Commonwealth, had their foundation in a chance custo be disposed of at an immense sacrifice, are in very good company. Some of the biggest Powers of the world have been keen bargain-hunters, says Pearson's Weekly.

The United States, for instance, the United States, for instance, big goldsmith's shop in Lombard goldsmith a goldsmith's shop in Lombard Street, and soon afterwards was enabled to purchase at a great bargain a quantity of the finest diamonds, which had been offered for sale by a sailor who had just come ashore. Ward's stock of diamonds soon attracted the attention of the Court, and he obtained the custom of Queen Henrietta Maria, who appointed him her jeweller. The rest pointed him her jeweller. The of the story can be told in a words. A Lord Dudley of that day being in want of £10,000 came to Ward and asked for a loan. Forthately or unfortunately, he was able to offer but little in the way of security, and here Ward saw his chance. He had a son, and Lord instance, showing the officer in charge which water-tight doors are actually closed and what navigating lamps are lit. It is also employed to operate the fog-horn from the wheel-house, and for the system of fire alarms, in connection with the hands of England unless he did rest instance, showing the officer in charge which water-tight doors are actually closed and what navigating lamps are lit. It is also employed to operate the fog-horn from the was practically certain to fall into the hands of England unless he did the family may be said to have gone the family may be said to have gone to the family may be said to have gone to the family may be said to have gone to the family may be said to have gone to the family may be said to have gone to increasing ever since that date.

In all ways, science is more and their discouragement of the gentler

ASPIRATIONS OF MEN.

In all ways, science is more and more studying to perfect the practical comfort and well-being of the world. Of course, there will always it additions fractions are charged upon, and the fortunes of the family may be said to have gone world. Of course, there will always it additions fraction and their discouragement of the gentler

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In all ways, science is more and more studying to perfect the practical comfort and well-being of the world. Of course, there will always it additions fraction and their discouragement of the gentler.

Only the choicest selected hill-more studying to perfect the practical comfort and well-being of the world. Of course, there will always it additions fraction and their discouragement of the gentler.

# Singer Talls

# 6. The Many Uses of a Good Sewing Machine

There is practically no limit to the variety of work that can be done with a Singer Sewing Machine. Whether for the finest embroidery, the plainest home sewing or the most elaborate tailoring, the Singer is equally efficient.

¶ Every woman takes pride in having these things, but if they be her own hand work, the satisfaction is complete, because her own personality is reflected in every seam.

The woman who uses a Singer me; have everything in needlework she can desireshe is better dressed at much less cost; her children are clothed according to her own taste and ideas; she has attractive table linen, and an unending supply of dainty underwear.

Moreover, she is free from the worry and delay which always comes with the use of a "cheap" machine.

#### Singer Sewing Machine Company TORONTO MONTREAL MINNIPEG

MARCONI PREDICTS STRANGE THINGS NOT FAR AWAY.

Says We Shall Catch the Energy of the Sun and Store it for Our Own Use.

That steamships will run by sunshine is the opinion of Guglielmo Marconi. The inventor of wireless telegraphy has come to America to increase his trans-Atlantic service from a capacity of 5,000 words a day to 20,000. After predicting a great-future for wireless telegraphy he said:

"There seems to be a happy fate in the coincidence of scientific discoveries, which on first thought are quite unrelated to each other. The development of the airship, as shown in the astounding perform-ance of Orville Wright's machine in Washington, would seem to have nothing in common with the perfection of wireless communication, and yet, if one looks into the future, the great airships which are to come, sailing at incredible speed and at untoreseen and varying altitudes, could never without the wireless 'speak' each other as ships do at sea and so remain in touch with those safely at home.

LIFE AN EASIER PROBLEM.

into the years to come, I am con-vinced that life will be an easier at the other end of the telephone problem, a more genial function in connection? And if they can do the scheme of things, than it is to-

the benefits. The birthrate will continue to decrease, as I believe the should, at least for the present. With the growth of intelligence among the mass of people there will come a realization of the folly want to say that we shall not have the marking more applicant than a continuous more accountable to the continuous more accoun of rearing more calidren than can be properly fitted to be efficient members of society. Quality, not are doing great things in that direction." ard racial excellence, and the present anomalous condition wherein the number of children in a family a inverse ration to the earning capacity of the parents will have disappeared.

The condition to-day is not one of race suicide, but of social com-mon sense. And if the present enlightenment of the average men and goods. women continues to its righteous turning point there will come an send of congected cities, with their wretched and starving children of er. the tenements, their crimes, their

WONDERS OF THE FUTURE terious primevad voice of the ocean will continue its spell over the human imagination. But there will not always be steamships. will pass the way of their predecessors, and ere long we shall cross. the ocean in ships run by electric power. There will be no grime of coal smoke, no sickish (dor of stale steam, no blazing caverns in the hold, where human beings with staring eyes and blackened faces sweat their lives away that the sweat their lives away that the pulse of the engines may not stop. The storage battery will take the place of coal and fire and water. Instead of coaling, the great ship will quietly and cleanly renew her batteries abher journey's end, and if coal is used, it will be far from the lines and the moses of men.

the line and the noses of men. "Furthermore, I look for the time when coal will cease to be our only source of energy. In every land men of science are patiently study-ing the problem of utilizing the energy of the sun—storing it, in fact—so that the generation of electric force may be cheapened by its use a point where the storage battery on a large scale will be an eco-nomic as well as an

ACADEMIC POSSIBILITY.

The wasted energy in coal as now used may in the interval he brought to do its work and so bring about the monster storage battery sooner than we now expect. or later, we shall enslave the sun's rays to our uses as we have the other products of his being.

day. waves of images at a distance and it looks as if science is bound to aclor which follows the conquest of complish it—I am voicing no exNature's forces, there will be fewtravagance in saying that we may or people among whom to divide yet sit in our homes on a cold winthe benefits. The birthrate will ter's night, turn a switch, and not

A man is always willing to con fess faults that he thinks he hasn't.

A man would rather give himself away than be sold by a woman

The more a man talks the less he can be depended on to deliver the

Some women are self-made and some are remodeled by a dressmak-



which there are thirty-eight alarm- something. So, in 1803, he offered o increasing ever since that date. be ships upon the seas. The mys- grance and delicious flave.