

A STORAGE BATTERY.

Two Young Men Think They Have Solved One of the Problems of the Age.

THEY USE STEEL PLATES.

A Party of Wise Men From New York Say the Thing Will Work.

THE ACCOUNT OF A LAYMAN.

Defects in Appliances That Have Been Put Out Up to Date.

NICOLA TESLA A DECIDED SENSATION

(WRITTEN FOR THE DISPATCH.)

Those who are engaged in developing electricity commercially and the enthusiastic young scientists who are aiding these capitalists have been greatly interested and impressed within the last ten days with an invention which seems likely to revolutionize the storage battery.

Some years ago in that great training school for electricians, the Edison works at Schenectady, two young men, Waddell and Ernst, who were employees of the company, spent all of their spare time and frequently a good many hours when perhaps from the point of view of health it would have been wiser to have been in bed, in electrical research.

Getting a Fortune From a Motor. They invented a motor which, when capitalists saw it and had thoroughly tested it, gained their favor, but these young men having also something of worldly wisdom, and knowing something of the experiences of other inventors, decided to control the patent themselves, for they had saved their money, and had a few thousand dollars apiece.

The Young Inventors Use Steel. The young Schenectady scientists realized that the problem was to get a battery which would be light and which would not be liable to such accidents as made the old batteries so expensive.

When the electricians examined the storage battery which Waddell and Ernst had invented they were amazed to find that the inventors were making use of steel plates. These plates were very thin, and therefore light in weight, but steel for such a purpose would have been the last method which would have occurred off-hand to any electrician for such use.

Without using technical language it may be said that this storage battery consists of a set of steel plates, of a copper mat, which is made of fine copper wire very closely

interwoven and then saturated with oxygenated copper, from which by treatment after the oxygen is removed, making what is practically a solid copper plate, but as thus constructed better for this purpose than a sheet of copper would be.

Storage batteries have been made heretofore which did their work satisfactorily, but which involved expense and were commercially therefore of little avail. On one of the street railways in New York City street cars were fitted with storage batteries, which furnished perfectly satisfactory power, and it was thought for a while might supplant horse power used on that line.

Both Light and Substantial. Many experiments, some of them severe ones, seem to indicate that nothing but a collision or a pick-ax could destroy this battery. The full force of the current was applied instantly, and there was no effect whatever upon the battery, although a powerful electric force was thus generated.

This battery has been used on one street car line in Chicago, Ill., experimentally, and if the reports of the manufacturer are to be believed, with entire satisfaction. It was taken from the car a few weeks ago for purely business reasons, but it is quite likely to be fitted again, as it is running on that street railway.

Another development of electricity which is occasioning vast discussion are the experiments of Nicola Tesla, who is well known in Pittsburgh. Some months ago Tesla conducted a series of experiments before the American Institute of American Engineers at Columbia College in New York City.

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Nicola Tesla.

rapid and which are believed to be nearly identical with light waves, been able to carry this current without any artificial conductor from one point to another. For instance, he will stand between two plates, one on each side of a room, which are connected by a wire, not with one another, but with the battery, which supplies these peculiar electric waves.

The Theoretical Effects Obtained. Tesla has diversified these experiments by having a wand which is illuminated as he thrusts it within the reach of this current, and in other most beautiful and almost spectacular ways he makes evident that an electric current whose waves are of peculiar form and velocity may be conveyed through natural media.

These discoveries have not yet been put to commercial use, but the men of intellect who are giving their time and capital to electrical developments are of the opinion that Tesla's discoveries are likely to be within the next few years so commercially developed that they will practically revolutionize some forms of electrical application.

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ing into the air like things of no weight whatever. However, we passed safely over and shot alongside the whale's hump. I saw Mr. Perry draw back his arm and like a flash the iron flew through the air and buried itself near the whale's shoulder blade.

By this time every man was on deck, and the boats were rapidly lowered.

Whenever we had lowered for practice the mate had invariably succeeded in capturing or starving his boat, and on the present occasion the big Dutchman, Hans, who was one of the mate's crew, and whose duty it was to see that the oars and ballers were all in the boat, made his appearance with a huge bucket, which he was placing in the boat, when the mate started out.

Once clear of the ship up went the sails, as the whales were to the leeward of us, and away we went with a good breeze.

As luck would have it, poor Hans caught a crab with his oar and the second mate's boat shot ahead and "Long Joe" Lumbert drove two iron into a large bull whale.

Our new neighbor came slowly toward us, and when his head almost touched ours he sank under the surface and went directly under the boat, his "hump" raising us gently a few inches, but doing no damage.

By thunder, Mr. Perry, that was a purty clus shavel! Now get the mast and sail in lively, and we'll haul alongside our fish yet.

Before we had time to realize what new danger threatened us, a loose whale shot its enormous head out of the water not ten feet away, apparently coming directly for us.

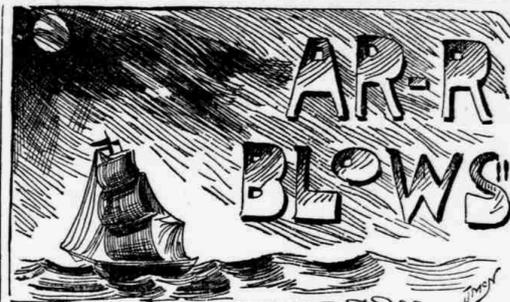
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OR, FOUR YEARS ON A NEW BEDFORD WHALER.

WRITTEN FOR THE DISPATCH BY CAPTAIN J. H. B. ROBINSON.

The Straightforward Tale of a Plain Sailor's Actual Adventures on a Cruise in the Stormiest Seas of the World.

CHAPTER IV. A NARROW ESCAPE.

On January 10 we were sent to masthead earlier than usual, as the mate stoutly insisted that he could "smell" whales. It is true that there is a very perceptible odor from a whale, and with the wind favorable his presence is often noticed at night when it is too dark for him to be seen.

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soon allowed us to come up with him, and then the old man sent the sharp lance again and again into his vitals until the water from his spout holes began to be tinged with red, and a shout went up from the boat's crew, as we saw the infallible sign that the whale was mortally wounded.

We backed off out of the way while the death agony or "flurry" lasted. At last the monster slowly rolled over, "fin up," and we knew he was dead.

In his agony he had wound our line more than a score of times around his body, and while we were clearing it the other whales, pursued by the two boats, came close by us and we saw an exciting chase.

"Pull boys, pull! You ain't half pulling! Put in another pound of backbone! Jump her I say! Do you want the mate to be a nee? A new shirt for every man in the boat if we get fast before 'em! That's the way to do it! We're gaining on 'em!"

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man-eaters with our boat spade, one blow on the nose being sufficient to render them "hors du combat," but still they increased in number until we were very uneasy. To sit in a frail boat and look over the side directly into the cold, green eye of a ten-foot shark without flinching is a feat few can perform.

It was a sight long to be remembered—the sharks tearing at the whale's blubber, splashing and fighting, the wind sending occasional showers of spray over us as a larger sea than usual struck the body of the whale and broke high above it. Wet, cold, and hungry, as I was, I missed my tobacco more than anything else, and I mentally registered a vow never to offer the old man my plug again, if indeed I was spared and had the chance.

While from the other boat a stream of water was being poured into the water, the old man was soon seen near enough for us to see that he had a large whale alongside. We towed our "double spouter" to the vessel and found the second mate had been obliged to cut from his whale on account of darkness, but the mate had been more fortunate and had killed his whale without accident.

CHAPTER V. DOUBTING THE CAPTAIN. For several days after the events recorded in the last chapter we were hard at work night and day cutting in our whales, and "krying out" the oil, which at last was safely under the hatch.

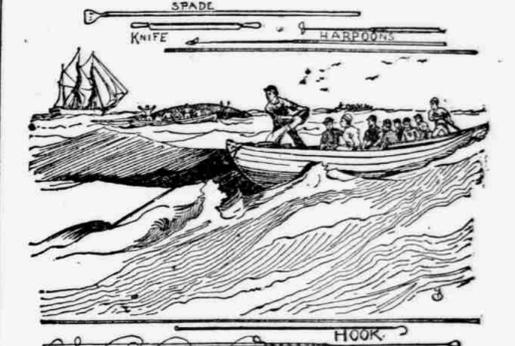
A most amusing incident occurred during the process. One dark night, when the fire was streaming from our two smokestacks as the scraps were shovelled into the fireplaces, a large ship ran down within hailing distance, and the Captain shouted through his trumpet:

"Captain Keys immediately answered: 'Aho there!'"

"What's all the blaze?"

"We're 'krying.'" "Tryin' looks as though you were trying to set your ship afire!"

"And we heard the disguised philanthropist shout:



THE MONSTER TOOK THEM IN TOW.

of the whale, cutting through the seas at race-horse speed. We now placed a "wail" or flag in our whale and returned to the ship, put the Captain on board, and taking some coffee in a bucket, and some salt beef also, went back to stay by our whale while the old man worked the ship to windward after the other boats.

All day we lay alongside the dead whale, while the old Triton boat to windward, and finally we lost sight of her entirely. Then night came on and a strong breeze sprang up, but we fastened our boat close to the leeward of our prize, cut a gash in his blubber, and the "slick" formed by the oil prevented the boat from slipping any water. The sharks were now attracted, and the water was fairly alive with them. We killed dozens of huge

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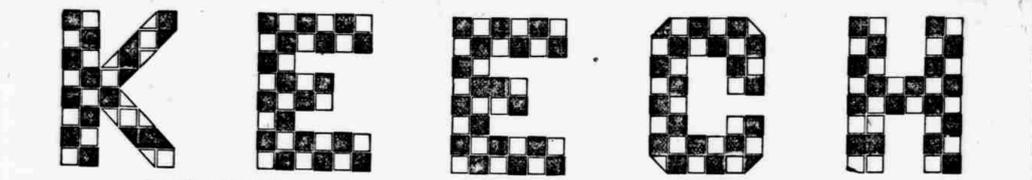
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