THE PRESENT METHOD OF HUNT-ING THE MIGHTY CETACEAN.

Duties of Officers and Crew in a Whaling Ship-Equipment of a Whaleboat-Killing a Whale.

Before proceeding to detail the manner in which whales are captured it may be well to describe the duties of the various members comprising the crew of a board of his vessel at all times, navigating and working her through the ice. When the boats are down after whales the master immediately proceeds to the crow's nest-a frame covered with cauvas built at the fore topgallant masthead a steamer, has followed her boats and -and from that coign of vantage he directs the boats by means of flag signals bone is taken out, and in a few hours in what direction to pursue the whale.

There are generally as many mates on board of a vessel as there are boats. When whales are sighted the Captain designates the boats to be lowered. Each boat has a petty officer, termed among American whalemen the boatsteerer, in Scotch whaling parlance the harpooner. The work that is done by the boatsteerer is described fully in the narration relating to the capture of the whale. In the whaleboat the forecastle hands are the oarsmen. The post of bowman, pulling the bow oar, is regarded as the most important position among the oarsmen.

As a general rule, the boats have stems, knees and frames of white oak, while cedar is used for planking. A first-class whaleboat without her equipments weighs from 500 to 600 pounds, and when all the necessary articles for capture-including masts, sails and oars -are in place the total weight aggregates about 1530 pounds. The apparatus used for killing whales has been im- \$600,000,000. proved from time to time. Harpoons were the first instruments used for fastening to the whale. The modern harpoon is nothing more than an improved type of obsidian iron or copper "kapoon" that the Arctic Alaskan Esquimau use at the present day when they cannot obtain a better substitute.

The initial step now taken in the capture of whales is identical with that of the early days of whaling, the harpoon being relied upon to fasten the whale to the boat. Hand lances have been superseded by bomb lances for killing, and boat spades that were for- is a tract of nineteen square miles of merly used for severing the tendons which connect the body and the flukes

The shanks of the harpoons are forged by hand from the best Swedish iron, and the heads, although sometimes wrought, are usually cast from annealed or malleable iron. Some irons now in this city have the shanks twisted in the strangest forms; some have been bent into a loop. There are instances of the shank at its neck being reduced in diameter by tractile force, that is to say, the power exerted by the whale when towing a boat thousand different religious beliefs. and with an iron in its body. It may appear overdrawn to make the statement, and many persons are inclined to murder case said she had never seen a scout the idea that the fibers of cold iron | Bible before she entered the court room. can be drawn out, but the fact remains

seum at Washington. Besides the killing gear, a whaleboat contains as its equipment hatchets, canpork and other provisions, a keg concontaining a lantern, matches, tinder- the year round. box, candles, pipes and tobacco, oars and paddles, a spade to cut a hole in the whale's lip to run a line through in order to tow the carcass, a fog-horn and other articles. Thus fitted, the boat when lowered skims over the water in quick time, provided the crew are well trained.

With this outfit let us now imagine sighted by the lookout at the crow's two captains and four lieutenants and nest. As soon as a whale is "raised," sixty men. This number includes the that is seen, the officer on duty aloft famous Swiss Legion. sing out, "There she blows."

Then a scene ensues-the watch on deck rush to the boats to which they be- railway dividend, the market value of long, while the sleepers or watch below the stock has shrunk more than \$9,000,tumble up on deck. Meanwhile the cap- 000, or an amount sufficient to pay the tain is in the crow's nest and directs the extra one per cent for twelve years. particular boat to be lowered. "Starboard waist boat" is the order, and into Siamese are not produced, as has been her the officer, boat steerer and crew soon find the way. "Lower away" comes the next command, and as the falis slacken out, the boat touches the water, from charred cocoanut kernels. This is her crew are all ready at their oars, and carefully applied to the teeth again and with a strong, steady pull the vessel is soon left.

When squarely in the water, if the wind allows, sail is set on the boat. The officer or boat header steers with a long oar and the boat steerer at the bow thwart pulling an oar, until at the word ant moisture, South America possesses a of command he springs to his feet. Wonderful wealth and variety of vege-Steadily and noiselessly the boat ap-proaches the big fish, the men's nerves able vegetable productions, its immense strung to a high degree of tension. Not pasture plains and its rich mines of gold, a whisper can be heard, and no sound | silver and precious stones, give to South save the drip of water from the paddles. America natural advantages over all the Then the whale, if resting or playing, as other countries of the globe. It already the "baleen" generally do amid the ice supplies the world with immense in the spring of the year, emits a soft quantities of coffee, sugar, cotton, to-vet sonorous breathing, resembling the bacco, caoutchouc, cattle products, dye yet sonorous breathing, resembling the drawn-out soughing of a forest of trees wood, drugs, spices, fruits, minerals and during a wind storm. By this time the precious stones, and all that it requires boat is in such a position that the whale to astonish the whole world with the can be reached with a darting gun. The variety and profusion of its productions boat steerer stands ready, sees that the is a perfect system of interior communi-line attached is clear of kinks and snarls, cation, as well as available and ample with body thrown back and right arm poised with the heavy darking gun, feet press. firmly planted, he awaits the supreme moment to hurl the deadly bomb lance.

Up comes the whale, and with great dexterity the darting gun is thrown, striking the fish, if an expert boatsteerer is on duty, in a vital spot. The harpoon is fast and the whale soon feels the instrument of torture in its vitals. Sometimes, but rarely, does the first bomb kill it. Then comes the orders
"Stern all!" and "Wet line," and as
the line pays out from the tubs over the and that every one of them is a sun, the bow of the boat at lightning speed it requires continual wetting to keep it from being burnt by friction. The boat-Lick telescope reveals stars so small that steerer or harpooner now goes to the stern of the boat, and the officer takes visible to the naked eye."—San Franthe place in the bow. Meanwhile the cisco Examiner.

THE PURSUIT OF WHALES, boat is being towed by the whale at a quick pace. But the cetacean has to come up to breath, and as the line slackens the crew haul it into the boat, and soon the fish is on the surface. Then comes the chance to use the shoulder gun, and when from eighteen to thirty feet from the whale, a bomb planted in the "life" (or lungs) of the fish ends its career. The dying struggles of the whale are almost human like. Spouting its life blood the water is tinged for a large area with the ruddy hue. Swimwhaling ship. The master remains on ming round and round, the big fish heaves almost human sighs, and finally, with a gigantic nervous thrill and shake, gasps its last breath and turns on its side

or back dead. When the whale is killed the vessel, if soon picks them and their prize up, the nothing remains but a carcass for gulls and other sea birds to feed upon .- San Francisco Chronicle.

#### SELECT SIFTINGS.

Artificial coffee is gaining ground. Schaller (Iowa) aldermen get \$1 a

Three hundred and ninety-eight millions speak English.

An orange wine factory is soon to be started in Jacksonville, Fla.

A clock owned by a resident of Trappe, Penn., has ticked since 1766. There were 1500 different orchids at the New York orchid show, and no two

alike. It is claimed that sheep furnish the most profitable live stock industry in North Dakota.

The expenditures for the first fifty years of the Government amounted to

A game called "progressive potato picking" is all the rage in North Platte, Neb., social circles.

The Indian boys and girls at the Indian school have \$11,000 on deposit in Carlisle, Penn., banks.

A Brooklyn man paid \$2800 for a Japanese glass ball at the Brayton Ives sale in New York City.

Ice cream in the form of asparagus, is made to order by New York caterers at

the rate of \$3 a dozen. Alaska is so sparsely settled that there land for every inhabitant.

A man recently arrested at Williamsare also displaced by the explosive port, Penn., for larceny gave his occupation as that of a dude

George Vanderbilt's palace near Ashville, N. C., will cost \$10,000,000, and is to be the finest ever built.

In China less than 30,000 officials suffice to rule, in a most perfect manner, one-third of the world's inhabitants.

The earth's fifteen hundred millions of human inhabitants speak 3034 different languages, and possess about one

A fourteen-year-old girl who was sworn as a witness in a Camdem, N. J.,

John Logan, who died in Omaha, proved by the presence of three of these Neb., a few days ago, had the distinc-"stretched" irons in the National Mu- tion of being the first man to be married in that town, the ceremony taking place in 1854.

The hottest of the "big foreign cities" vas, sheet lead, tacks, hard bread, salt is Calcutta, India, with a mean annual temperature of 82.4; the coldest is St. taining water, a bucket, a lantern keg Petersburg, which averages only 36.6

The full name of the late King of the Sandwich Islands was David Laamea Kamaukapur Makinulani Nalviachuokalma Lumiolani Kalakaua, and they called

him "Calico" for short. The army of the Pope for 1891 is made up as follows: Two generals, two that a school of whales or a big fish is colonels, two lieutenant-colonels, a major,

> Since the one per cent. reduction in the Chicago, Burlington and Quincy

The blackened teeth of the Malays and supposed heretofore, by coating them with a mixture of betel and lime, but by rubbing the teeth with a paste made again, until a black varnish hides the natural white.

#### Bountiful South America.

By virtue of its most valuable combination of continuous heat with abundfacilities for exportation .- Mail and Ex-

Most Startling Fact in Astronomy. Professor Charles A. Young, the eminent Princeton astronomer, recently sat chatting in the court of the Palace. One of his listeners could not refrain from asking him in an off-hand way:

"What is to you the most wonderful and startling fact of astronomy?" and that every one of them is a sun, the-oretically and by analogy giving light and heat to his planets. You know the

Properties of the Kola Nut.

The wonderful stories that have been told of the properties of the kola nut are more than confirmed by the British Consul at Babia, who has written & special letter to Lord Salisbury on the palace. subject. The west African carriers at that port, who use kola and carry the bean wrapped in banana about their persons, are not physically speaking superior men to the Brazilian negro; yet the African, though constantly masticating kola, can, it is said, endure fatique which no Brazilian traveler can withstand. Where it takes eight Brazilian negroes to carry a load with difficulty, four African porters carry it cheerfully, singing and chanting as they trudge along, each with a bit of kols bean in the mouth. As a rule the kolaeating African gangs who labor at the hard task of unloading vessels earn twice as much as their competitors. The beans, which are described as intoxicat ing and in no way injurious, are said to been the usual practice to employ interact as a nutritive, and quench the nal mandrels to prevent collapse or thirst, yet they are not strictly a stimu- change of circumferential ontline. lant. The supply of Bahia comes from Lagos. It is best soon after it is gathered, and is sold, according to freshness, at two-pence and three-pence for each bean. It appears that the attention of the Government of India has already been called to the extraordinary properties of kola nuts, and practical from the authorities at Kew.



He who waits for an inactive liver to do its work, exposes himself to all the diseases that come from tainted blood. Don't wait! Languor and loss of appetite warn you that graver ills are close behind. You can keep them from coming; you can cure them if they've come—with Dr. Pierce's Golden Medical Discovery. It's the only blood and liver medicine that's guaranteed, in every case, to benefit or cure. Your money back if it doesn't. Thus, you only pay for the good you get. Can you ask more? It cleanses the system and cures pimples, blotches, eruptions and all skin and scalp diseases. Scrofulous affections, as fever - sores, hip - joint disease, swellings and tumors yield to its superior alterative properties.





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#### SCIENTIFIC AND INDUSTRIAL.

Berlin will not permit an electric road. Denver, Col., will have a mineral

Cork covering for steam pipes has proved very successful in England. Many of the explosions in flour mills

have been traced to electricity generated In Denmark the life-saving stations are

all supplied with oil for stilling the waves in storms. A new bag machine both cuts and sews the bag, and thus saves the labor of

fourteen operators. It takes about three seconds for a message to go from one end of the Atlantic cable to the other; this is about 700 miles a second.

In welding pipes by electricity, it has

A large body of antimony has been found in Inyo County, California. The owner says he has in sight bowlders of the metal weighing from two hundred to three hundred pounds. It is a val-

Miss Frye, a school teacher, has disinformation has been supplied to them covered a method by which better tiles can be made than have ever been made before. She has a patent and is likely soon to turn from school teaching to financiering.

The exhaustive experiments at Salford, near Manchester, England, with a view of ascertaining the most efficient method of purifying sewage, has resulted in the recommendation of an electrical system as the most satisfactory.

Small articles made of malleable iron are now finished and polished bright by being placed in revolving drums with curriers' shavings, from which they emerge with all of the rough edges smoothed and the surface highly pol-

A secret chemical powder introduced abroad, when sprinkled over the top of the coal in a newly made fire cements the upper part of the fuel together and causes the coal to burn at the bottom and throw the heat into the room instead of allowing a large part of it to go up the chimney.

A process has been recently invented by which iron may be copper, the surface of the iron being protected by a layer of melted cryolite and phosphoric acid. It has been found that if the article, when immersed, is connected with the negative pole of a battery, the coppering is done more rapidly.

By a new process waste leather scraps are steeped in a solution and subjected to a hydraulic pressure to mould them into railway brake shoes. The leather shoe weighs 41 pounds against 211 pounds for iron, and it will wear three times as long. Such, at least, is the claim of the compressed leather men.

A permanent and durable joint can be made between rough cast-iron surfaces by the use of lead to make a very stiff putty. This will resist any amount of heat, and is unaffected by steam or water. It has been employed for mending or closing cracks in cast iron retorts used in the distillation of oil and gas from cannel coal.

High funnels seem to be growing more and more popular among the builders at the yards of the British navy. The Merseo has had hers doubled in height, while those of the Blake are not less than fifty or sixty feet, reaching as far up as the tops. It is said that the result, as far as appearances are concerned, is anything but pleasing.

#### The Curve of Health.

Dr. Oliver Wendell Holmes has made a discovery. It is that of the law of the curve of health. "It is a mistake," he says, "to suppose that the normal state of health is represented by a straight borizontal line. Independently of the well-known causes which raise or depress the standard of vitality-there seem to be, I think I may venture to say there is -a rhythmic undulation in the flow of vital force. The 'dynamo,' which furnishes the working powers of consciousness and action, has its annual, its monthly, its diurnal waves, even its momentary ripples, in the current it furnishes. There are greater and lesser curves in the movement of every day's life-a series of ascending and of descending movements, a periodicity depending on the very nature of the force at work in the living organism. Thus we have our good seasons and our bad seasons, our good days and our bad days, life climbing and descending in long or short undulations, which I have called the curve of health. From this fact spring a great proportion of the errors of medical practice. On it are based the delusions of the various shadowy systems which impose themselves on the ignor-ant and half-learned public as branches or 'schools' of science. A remedy taken at the time of the ascent in the curve of health is found successful. The same remedy taken while the curve is in its downward movement proves a failure. So long as this biological law exists, so long the charlatan will keep its hold on the ignorant public. So long as it exists, the wisest practitioner will be liable to deceive himself about the effect of what he calls, and loves to think are, his remedies."

#### A Princely Tip.

A gentleman accompanying two ladies entered one of the fashionable restaurants near Madison Square one evening recently and were ushered to a table "Are you the man to serve me?" he said to the waiter who came to take his order. "Yes, sir," was the reply, whereupon a five dollar bill changed hands. The luncheon was admirably served, the glow of satisfaction never leaving the waiter's face. Yet most waiters will tell you that it is not the occasional large fee from a stranger which pays him so well as the steady ten or fifteen cent tip from the daily patron of his table. That becomes an actual income .- New York

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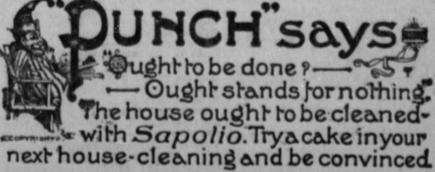
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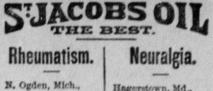
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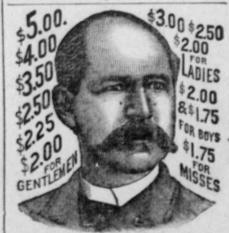
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