Is Uncle Sam's Most Reliable Lighthouse Keeper.

NEVER FALTERS IN ITS WORK.

By the Aid of the Wonderful Sun Valve It Lights the Acetylene Beacons as It Sets at Night and Extinguishes Them as It Rises In the Morning.

The sun is the most trustworthy of ighthouse keepers. The sun or the heat from it lights many hundreds of acons along our coasts and waterways evening after evening and exuishes them punctually every morning. They are guides on land and sea hat are never touched by human hands from one month's end to another. The way in which the United States govent, through its lighthouse board, has utilized the services of the sun and made that great lamp of heaven a faithful and unerring servant is most

The discovery of acetylene gas was the first step toward retiring the lenely seepers of the little lights in faroff aces. Modern magic was not slow in recognizing the fact that by the apcation of certain well known scienific principles the lighting of the great mins of beacons that girdle the coasts of the two seas and the gulf and cover the great lakes and every navigable stream in our huge country could be

the lighthouse board devised some nderful improvements, among them the utilization of the sun.

The self lighting and self extinguishng acetylene beacon is a very simple hing, but it depends almost entirely on the "sun valve," which is one of the nost wonderful but least complex of the achievements of modern science.

In the first place, the source of light cetylene, which is stored under pressure in steel cylinders. One of these cylinders can be charged with enough cas to last a small beacon three years. Usually, however, in the case of floating buoys, a six months' supply is all that is necessary, as such buoys are overhauled and painted twice a year. Knowing the size of the flame and its hourly consumption of gas, it is very asy to compute how long a cylinderful

The scientific principle upon which the sun valve depends is that light waves become transformed in different grees, according to the nature of the ntercepting body. Sunlight upon dark surfaces is converted into beat, and eat produces expansion. This expansion is especially perceptible in certain

In a carefully sealed and substantially mounted glass jar nearly a foot igh and about one-fourth that in dieter a thick black rod is placed perendicularly through the center. It is ported by three slenderer rods of thly polished copper. The big black rod is of copper also and is coated with lampblack to make it absorb light to the greatest possible degree. The supporting rods reflect light without absorbing it and do not expand or contract to the same extent as the largest

The thick black piece of copper in the center of the jar is extremely sensitive to light and beat. As the sun appears and the atmosphere grows warmer in the morning this rod length ens. It pushes down into the metal chamber in which the glass jar rests and touches the end of a lever. I resses down on this lever, which is ntrolled by a spring and cuts off the low of the gas to the lamp.

When the sun disappears from view The rod contracts and releases its pressure on the lever, allowing the gas to flow upward to the lamp. The gas is gnited by a little pilot flame that is never extinguished. Thus the beacon is lighted at the proper time and is put out when it is no longer needed, although along desolate coasts it may never gladden the human eye for onths at a time.

The engineers of the lighthouse board say that the precision of this device is almost incredible. It can be used with by equal certainty in equatorial heat and in polar cold, for it responds with the most accuracy to small variations in perature. It is used on lonely is ands in the Pacific. There are nearly hundred of these sun valve beacon n Alaska. In summer they are aids to navigation; and in winter they guide the travelers on dog sledges over the rozen wastes.-Harper's Weekly.

derstand that a number of wo have learned to smoke cigars,"

id the frivolous observer. "I don't believe it," replied Mr. Meek n. "The kind of cigars that women nobody could smoke."-Washing-

Softly-I'd have you to understand, , that I'm not such a fool as I look. cast-Well, then, you have snuch to

ches are like sea water, the more u drink the thiratier you become.hopenhauer. get the earlier courses."

Lieut.-Col. H. C. Lowther, military tary to the Duke of Connaught York, to represent his royal highness at the funeral of the late Whitelaw

SARDINE FISHING

Taken In Fundy. The sardine is a frequent article of

of Sardinia. This is the sardine put death up in France. The sardine packed in Canada was the first country to take trator of the fiendish crime. Jardine talked; he talked continually—of the way are the young of the herring atic way, and to-day leads the world crime—the brutality of it, and all its (Clupea harengus), from five to seven

inches in length These young herring come in on the coast of the Bay of Fundy in immense schools from June to October. They are caught in weirs (pronounced is there any cost to any church taking up the work. Special attention is paid to the Sunday school work, and shaped enclosure of stakes, brush and so simple is the league's plan of opernet, far enough out from shore so ation, that it can operate through a detective was standing on the plat-that at low tide (and the tide in the Sunday school or any other depart- form. When the crowd moved these Bay of Fundy rises and falls some | ment of a church without creating any | men also moved, in and out, until one twenty-eight feet) there will be from extra machinery, or in any way add- of the men, noticing the detective four to ten feet of water in it. A fence ing to the burden of those interested. watching him, nudged his companion,

the gate of the weir. running a weir lives close to it during the season, and as the fish fill into a weir on the high tide he inspects his weir each high tide, and if the branches mentioned.

twenty-five years of age; that 70 per store was broken into at Newmarket, cent. are Sunday school scholars, and clothes stolen. Brady was arrested, that Ontonia has slightly over 200 of convicted, and spent nine months making large stones smaller. Three he finds fish in it he drops the net . When the founders wanted a man weeks after his release a jewelry store over the gate. Usually the fish come to promote the league they picked was robbed, and over five thousand much simplified.

The United States did not become inhigh tide. At low tide the weir is was a wise one no one can doubt affound to have been entered and an exenough to reach the bottom of the As Canada was the first country sysweir, with weights at the bottom and until 1908. Then the engineers of floats at the top. This net is stretched round the circumference of the inside of the weir by a man in a boat, then gradually drawn in until the fish are

gathered into a practically solid mass.

Then the fish are dipped out by a hoop of the net is placed in the boat and the bag pulled in hand over hand, loading the fish into the boat. of sardine which sometimes run into a weir may be obtained from the fact that as high as three hundred hogs- want to say first of all that the league old felt hat—presumably by a woman heads, each holding four barrels, have has come to stand, it will be a per- it was never learned. Rutledge been taken out at one time. From fifteen to thirty hogsheads is consid- success to date, and keeping in mind self over a balustrade, falling three ered a fair catch, and anything over the kindly attitude of all denomina- flights in the jail. Jones died in jail, two hogsheads as worth seining for. The price paid to the owner of the hesitancy in saying that within five paid his score in the jail courtyard. weir varies from \$3 to \$30 per hogs-head, according to the abundance or

scarcity of sardine. On arrival at the factory the fish are noisted from the hold to the dock and are sent down a sluice. Here they are deposited in brine tanks. From these tanks they go through the flaking machine, which raises them to the next floor and arranges them in a layer over large trays known as "flakes." These flakes are placed in a large rack on wheels, which is wheeled in-to the steam-chest, where they are steamed for ten minutes. From the steam-chest they are wheeled into the drying-room, where they are dried in a hot air blast. When dry they are removed from the rack and the flakes are carried to the packing tables, at which girls are at work packing the fish into tins. The tine and covers are stamped out of sheet tin by machines on the premises. Considering the immense number of young herring which are caught in the weirs it no wonder that many have predicted that the supply of herring would soon give out, but the fact remains that best, if not the very best, in the his-tory of the sardine industry in Canada, the owner of one weir making \$5,000 in two weeks.—Canadian

His Reperting Days.

ship in the field of literature Arthur Stringer was a reporter on The London Free Press. His faculty for dramatic effect was already beginning to show itself, and he sometimes handed n copy more vigorous than discreet. Upon one occasion he was sent to the air falls the process is reversed. several out-of-town singers took part.

Mr. Stringer's article criticized one of them as "rendering Tosti's Good-Bye' with the expressive cadences of a phonograph out of breath." Very naturally the editor made an objec-"If we let that go in, her husband would dynamite the building," Strin-

ger was told.
"Then we'll compromise," agreed the reporter. "We shall say 'she rendered Tosti's 'Good-bye' indescrib

"That won't do, either." "Then, 'she rendered Tosti's Good-

"Much better," said the editor.
"In any event," concluded Stringer, "I had the satisfaction of getting sentiments down on paper for half an hour. I don't care now whether you print them or not."-Star Weekly.

Edmonton Looks Ahead.

Plans for fifty years ahead that mean an ultimate aggregate outlay of twenty million dollars, have been ordered by Edmonton from a land-scape architectural firm.

The plan covers a proposed exten-sion of the city into rural districts, locating residence districts, land to be acquired for park and parkway ses, so-called zones restricte and no restricted as to occupat and sites for workmen's houses and for housing municipal empolyes. Land uired for a civic centre will cost \$1,500,000, according to estimate, and for an approach to Parliamen

The Last Course. "Paw, when there's a big banque why do they always have spoile ese to wind it up with?

Because, my son, it makes you for-

City for the past fortnight, returned duties was collected, compared with to Ottawa at noon, Wednesday, and 863,670,058 for the corresponding periattended the New Year's day levee of od ending December 31st. 1911. This

CARRYING TESTAMENTS.

How the Toothsome Little Fish Is Thirty-One Thousand Canadians Are Small Slips That Have Cost Murder-Pledged To Do So.

Two years ago there were comparadiet upon Canadian tables, and how- tively few men and women in Can- but they grind almighty fine." ever much its flavor and handiness ada who made a practice of carrying | Edward Jardine, an Ontario youth, are appreciated but little is generally with them wherever they went a paid the penalty of his crime on the known of the processes through which Bible er a New Testament. To-day gallows at Goderich a little over a 12 passes before its appearance in the there are over 31,000 who are pledged year ago. Jardine murdered a young The true sardine (Clupea sardina) is number grow, despite the dismal pro-a small fish of the Mediterranean phecies of those of little faith, who poor; he was not suspected. The and derives its name from the island looked to see the effort die a natural police were without a clue, and were

are over 31,000 members enrolled, and He was arrested on sur The young herring coming in from over 500 local branches. These scription wired broadcast, and a polica the sea keep close to the shore. Strik- branches are at work in every pro- officer came from Washington and got ing the lead they will not swim be- vince of the Dominion, and almost him, He was a notorious bank robtween the brush, of which it is com- every large city is represented. It is ber. posed, but swim along it into the interesting to note that 56 per cent. James Murphy, alias Brady, was a mouth of the weir. The man who is of the members are young ladies under "crook" who loved good clothes. A

ter reading of the league's success. tematically to take up this work, Mr. Waite had to work out a system of. promotion that would be wide enough to embrace a country and yet be ap- If it had not been for a woman, Rice plicable to the individual branch, no of the Rice, Rutledge, and Jones trio. matter how small.

organizing ability that one hardly ex- chants, and others, the three desperpects to find in one so young, and a adoes went to Chicago, where they gift of public speaking that has stamped him as one of the best young this weman. They were taken to Tomen speakers in Ontario to-day. work in Canada, Mr. Waite said: "I | which were thrown into the cab in an manent movement. Judging by our committed suicide by throwing him-

tions towards our work, I have no the result of a bullet wound, and Rice years the league will have a total It was learned by the police that the membership running close to the 300,membership running close to the 300,- trio had planned to break up, but beevery part of Canada. When the con- the letters to the woman entrapper ditions of membership in the league are remembered, some idea of the value such a movement will be to the religious and national life of our country can be realized.'

Canada's Black Rice.

Along the shores of Rice Lake, which separates the counties of Peter-boro and Northumberland, Ontario, here is much life when the black rice narvesting time arrives. It is the sighe rice beds of the Hiawatha Reserve the Alderville and Hiawatha Indians usually muster forces about the mid-dle of September and repair to the mouth of the Keene river.

Peterboro county, which has been the scene of rice harvesting operations for a number of years, is practically the headquarters for the band during the harvest season, and it is in close proximity to several of the largest beds on the adjacent waters.

The sole right to gather the rice is

vested in the tribes, whose Indian parentage is unquestioned, and the primitive custom is one of the few that have withstood the changes of time. soft September day is worth while intercollegiate sport with an individ-During the days of his apprentice- see the Indian as he existed in the the game about six years ago to mancentury has robbed the old-time custom of much of its charm; this is especially noticeable in the present day garb of the redmen, but the oldtime picturesqueness is still much in evidence at the annual gathering of

> Simplicity and primitiveness characterize the preparation of the rice for market.

Trawlers Return.

After sailing over 16,000 miles in nearly four months the two pionee eam trawlers of the British Colum bia Fisheries Co., have just arrived at Prince Rupert. They are th "Canada" and the "Triumph." was only after a very exciting voyog that the former reached her destin ation in safety. Over 90 tons of cos were taken on at Union Bay on Van-couver Island, loading the boat down to the gunwales so that she became most unmanageable in 40 dirty weather between Banks Island and Skidegate. These forerunners of the extensive fleet which will play an important part in building up the prestige of Prince Rupert as a fishing port are of the most modern design and great interest will attach to the report of their first haul.

His Wealth. Magistrate-You were begging

the public streets, and yet you had 15 shillings in your pocket Prisoner-Yes, your worship. I may

Wouldn't Be Low.

"I understand that Mrs. De Style a great stickler for having every ing of the most exclusive kind." "Yes; she discharged her doctor ecause he told her that her tempers ure was too low."

Plump Whales.

The whales caught last year in the north Pacific were the fattest ever known. The blubber lay fifteen inches

LITTLE OVERSIGHTS.

ers Their Lives.

"The mills of the gods grind slowly, in every particular as far as the league | hideous features. His talk created Canada is found in the fact that there | Jardine's idea in talking was to divert are no fees of any kind attached, nor suspicion from himself, but he talked

of stakes and brush known as the The success of the league in Canada and that nudge just meant eleven "lead" runs out from the shore to is nothing short of remarkable. There years in jail for him—costly nudge.

session, and the tailor's suit on his back. This time he got four years. Clothes were his weakness.

would probably never have been hang-Mr. Waite brought to this task an ed. After robbing postoffices, merronto, and while being driven from jail Asked as to the prospects for the in a cab were supplied with revolvers them. Was the weakness in this case

Reginald Birchall, an Englishman, decoyed a fellow-countryman into a swamp near Woodstock and murder-ed him. He had interested Benwell in some timber lands and had the young man send to his father in England for a draft. He shot Benwell, intending to forge his name on the receipt for the draft, and get the money irchall then carefully cut off every identifying mark on Benwell's clothing, took his ring, watch, and papers, but inadvertently dropped his cigar case. "I was utterly insane when I overlooked the cigar case," he after-wards wrote in his diary.

The finding of the case led to the dentification of Benwell, and the arrest and conviction of the murderer. The list is long of men who have gone to the gallows through some little inadvertence in a well-laid scheme of murder-some apparently trifling

Guy Curtis, Farmer.

giant of condemnatory circumstance.

The name of "Guy Curtis" is em-A visit to the scene of action on a balmed in the records of Canadian and is the means by which one can uality all its own. Guy Curtis quit more primeval age. The twentieth age a farm inherited from his father. Fifteen years had he spent at Queen's University, Kingston, registering in "Arts," session after session, without attempting to make an academic progress. His devotion to rugby and hockey finally won him a national reputation, and when about forty-five years old, he reluctantly quit the university halls and became a "retired farmer" in Eastern Ontario.

The other day he returned to Kingston to renew old acquaintances. One of his boon companions was Dr. Jock Harty, now a wealthy young citizen, acting as an official of the Canadian Locomotive Co., and a well-known amateur sportsman. Guy paid him a visit at his office and listened serously to the doctor's description of how heavily the cares of a large busi-ness weighed upon him since the old days at college. When he had com-pleted the tale, Curtis nodded with sympathetic gravity and observed

"Jock, who blows the whistle when not here?"-Toronto Star

Fell 3,000 Feet.

Prof. Charles Wolcott died recenty in Edmonton following an illness of several months. He went to Edmonton at the time of the exhibiti last fall, and was taken ill. Prof. Wolcott's death was indirectly the reult of a fall of three thousand feet from' a balloon in South America seventeen years ago. Practically every one in his body was broken by the fall, and it was I operation which followed to lay bare the spinal cord for a distance of nine inches. The case attracted worldwide attention at the time, and newspapers and magazines devoted pages to the sensational fall and no less sensational recovery.

Not Much Progress.

A Montreal man was fined because he entered a house to protect a wife from assault by a drunken husband Civilization has not progressed so very far since the experience of the Good Samaritan.—Ottawa Journal.

The provincial cabinet will decide on Friday when the legislature will meet. George Reece, twelve years old, was drowned in the new Welland canal. The United States parcels post was



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