## THE GREAT BARRIER ATOLL.

This Famous Coral Reef, Off the Australian Coast, Is the Largest In the World and Extends For Thousands of Miles-Bermuda's Worm Tubes.

There are no true coral islands in the Atlantic. The coral islands of the Pacific and Indian oceans are very distinct from the so called coral islands of Bermuda and the West Indies.

True coral islands, or atolia, are formed by corals building upward on a submerged reef or peak until the growth reaches the surface of the sea or so near it that broken pieces of coral, drift, sand, etc., accumulate and in time build an exposed islet. At other times the coral reef is raised above the water by volcanic action. The Pacific reefs are often circular or semicircular in form, and such reefs are known as atolls.

The largest coral reef is the Great Barrier reef of Australia, which extends for several thousand miles.

The coral islands of the Atlantic are formed by wave broken shells and bits of coral which have become solidified and fossilized by chemical action and age. This material is known as aco lian limestone and after exposure to the air is exceedingly hard and durable, but where freshly broken or cut it is very soft and can be chiseled and sawed into blocks for building pur-

Many of the West Indian coral is lands are partly composed of fossil coral reefs which have been raised far above the present sea level by the vol canic uplift of the rocks to which they were attached. Such coral reefs, says the American Boy, are often found hundreds of feet above sea level and in places are found alternating with layers of lava, showing that the is lands have been raised and submerged several times in the past.

The atoll-like reefs in Bermuda are not coral at all, but are formed of in numerable worm tubes belonging to certain annelids. These worm tubes are often thickly incrusted with other growths, such as coraline, seaweeds, bryozon, corals, etc., and thus have the appearance of being composed of real

Corals, when alive, are not white, but are of many beautiful and vivid shades of green, pink, red, brown, yellow, lav

ender or orange. A mass of living corals, when seen through the wonderfully clear waters of the tropical sea, is a very beautiful and brilliantly colored sight. There are a great many kinds of coral. Some rounded and massive and are known as "brain corals." Others are broad and spreading or branched, while others are delicately formed and very brittle. Others are covered with rose shaped or star shaped markings are called "rose" or "star corais."

The openings or indentations in any coral mark the spot where a coral ani mal lived. The animals or "polyps" are very similar to sea anemones in form and have numerous fleshy tentacles, which may be drawn in out of sight when danger threatens. The entire coral is covered with animal matter when alive, and it is only after all the flesh is removed and the skeleton is bleached that the white coral ap pears. All the corals mentioned are known as "stony corals."

Another very large group of corais is the "horny corals," or Gorgonias. The well known "sea fans," as well as the 'red coral" used for jewelry, belong to this group.

Corals are not all confined to tropical seas. There are numerous species found as far north as the Grand banks of Newfoundland and Greenland, but these are not the reef building species. but belong to groups inhabiting the deep sea. One species is quite com mon on the coast of New England, but Bermuda marks the northern limit of reef building species in the Atlantic .-Exchange.

Locating Himself, The telephone girl in a certain New York hotel answered a queer call over the house exchange the other morning about 11 o'clock. When she "plugged in" a man's voice said: "Hello! Is this

the So-and-so hotel?" "No," replied the girl, who was slightly surprised. "This is Such andsuch hotel."

"Oh, all right!" said the man. "Just woke up and didn't know where I was."-New York Telephone Review.

"I am inclined to suspect the sobriety of the last student in our clam." "Why, so?"

"When I asked him what were his favorite studies in ornithology be re-plied swallows, bats and larks."-Bal-

## Not Normal. "I don't like those people at all.

They're too good." What's the trouble?"

"They've kept the same maid for eight years and insist that they've never had a washwoman disappoint them." -Detroit Free Press.

Willie's Question "Pa was Job a doctor? "Not that I know of." Then why do people have so much to say about the patients of Jeby

Who accepts from another sells his own freedom.-From the Germ

## DIDN'T NEED A TRUNK.

He Was a Master of the Art of Travel ing Without Baggage.

Sir Charles Napler was once delight fully pictured in Punch as setting out for Scinde with "his soap" and very little besides. De Latocnaye, a Breton emigre of 1796, who traveled in Ire turned up at the houses of his friends with almost no visible baggage, carried nearly as simple an outfit. Yet in some mysterious way he was always able to appear at dinner in full dress in his book "Promenade en Irlande De Latocnaye tells how he accomplish ed the feat:

"I had my hair powder in a bag madof a lady's glove. My razor, needlethread, scissors and a comb all wen into a pair of dancing pumps. In ad dition, I carried two pairs of silk stock ings, breeches of such fine stuff that cout with six pockets.

"Three of these pockets I kept for others, whenever I was going to call at a decent house, I stowed away my belongings, which were packed some in the pumps, the rest in one of the pairs of stockings

carried them at the end of my walking stick, on which I had managed to fix an umbrella."

Thus equipped he stayed at Lord Kenmare's for a week, at Hazelwood and at Florence Court for the same length of time, at Lord Altamont's and Ballynahinch for longer still, no doubt to the astonishment of housemalds as well as of hosts. But be was never disturbed by his lack of luggage and steadily refused all proffered loans of clothing.

By the time De Latocnaye got to Sil go the weather had broken, and he was obliged to add a spencer to his wardrobe.

## MAGIC FIRE WRITING.

How to Perform an Amusing and Mys tifying Trick.

This recipe for "magic fire writing" is given by the Pathfinder: Dissolve saltpeter in water until the water will "wrong" end of a penholder and, dip and stand it on something that will travel all along the lines traced and a side room. end by leaving the device burned out of the paper, no other part of it being destroyed.

sorts of amusing designs for this pur there. We ran in to the servant but pose can be got up. For example, you can draw in pencil or ink on the paper a picture of one boy throwing a base ball to another and also trace an in visible curved line in the saitpeter from the hand of the thrower to that of the catcher Then when you touch must be a warning that something fire to the thrower's hand the fire will had happened to him. It was the first follow the saltpeter line right to the

Those who see the thing and are no in the secret will be much mystified as to why the fire follows this line and does not burn the rest of the paper Saltpeter enters into guppowder, and wherever it has touched the paper it makes it burn.

# Chemical Changes.

By taking some limewater and blow ing one's breath into it a fine white powder will be formed in the water By adding some common sait to solution of nitrate of silver a thick white powder is produced which, it placed in the sunlight, will turn brown

Pour the juice of a red cabbage into test tube or thin glass bottle, drop in very gradually a solution of wash ing soda, shaking the bottle every time you put the washing soda in, and you will see the red solution gradually turning blue. Go on adding the soda solution, and the blue color will give

# Their Reward.

Dr. Strachau, bishop of Toronto, was waited upon by two churchwardens who complained that their clergyman wearled his congregation by repeating the same sermon. He had preached in twelve times. The bishop asked for the text. Neither of the churchwardens could remember. "Go back," said the bishop sternly, "and ask your clergy man to preach the sermon once more and then come back and tell me the

"Rube, how cold did you ever see it?" He said, "Well, sir, one time when I was living down in Pickaway county, in hog killing time, we had a kettle of boiling water setting on the store. and we took it out in the yard, and it froze so doggone quick the ice was bot."-National Monthly.

## Willie Chumpleigh-D'ye know, Miss Gladys, I hadn't been talking to your father more than a couple of minutes when he called me a brainless idlot. diss Gladys-Indeed! I wonder what

clay?-Life.

# JUST LIKE GHOSTS

The Norwegian Vardogrs and Their Curious Warnings.

## land, chiefly on foot and invariably A STUDY IN PSYCHIC FORCE.

Voices and Sounds and Visions That Foretell to Those Properly Attuned to the Phenomenon the Speedy Coming of Relatives or Friends.

parts of it, there is a well known phenomenon, instances of which are of frequent occurrence, known locally by various names, but in the east of the country commonly called vardogr. By this term is understood a certain propthey would fold up as small as my erty, attaching itself to particular perfist, three cravats, two very fine shirts sons, by which their arrival at a parthree pocket handkerchiefs and a dress ticular place, most frequently their own home, is announced beforehand "Three of these pockets I kept for by distinctive sounds, such as are letters, portfolio, and so forth; in the usually or naturally made by the per son in question.

It is only a limited number of persons to whom this property is attached who "have a vardogr," as the phrase is, and the premonitory sounds more than French vivacity, "I fied the three parcels in a handkerchief and carried them at the premontary sounds are not always heard nor by all persons. Very often it is only members of the family tice them at all. Much more rarely the person is seen instead of being heard some time before his or her ar rival. It is to be particularly noted that the idea of the vardogr is not one which is confined to the uneducated classes. It is equally recognized and its reality admitted by persons of edu

cation and culture. The following interesting account was given by Miss P., a schoolteacher

"It is nothing unusual to find people in Norway who have a vardogr-that is to say, that one can hear or see them before they really come in person. Such cases are found in nearly every family, but in some more frequently than in others. In the cases of my father and eldest brother it happens so often that we do not think it in the least remarkable. I remember one par-

ticular instance which I shall relate. "We expected my father home from a long voyage and got word that he take up no more. Then take the had arrived at a little harbor in the firth, but at the same time there came ping it in the solution, draw in thick a message saying that unfortunately strokes some name or design on a he could not get home for several days plece of light paper, taking care not as the ice prevented him from com to break the continuity of the writing ing up. We were very much disapanywhere-that is, all words must be pointed, because we were just then joined. When dry the writing will about to have a family gathering be invisible. Fold over or roll up half | When we had assembled in the evenon inch of each end of such a paper ing we talked about how delightful it after it has been allowed to get dry would have been if father could have come. My mother then took a book not burn. Light a match, then blow and read aloud, while we children it out and apply the glowing tip to worked, when we all heard the kitchen some spot touched by the design (you door open and father's well known can make an ink mark before apply step come in. He put down a Sox ing the saltpeter to serve as a guide, which he was carrying, and we heard and a tiny glowworm of fire will him speak to the servant, who sat in

> to it, said very calmly: "'Go to bed, children. It was only certain that he will be home for to

> had him safely home. Now, since he has got older, and especially since be gave up going to sea, we hear him much more seldom. But in his youth his mother heard him constantly and sometimes even heard him knock on her window and call her by name Sometimes it woke her by night, and she would rise and go to open the door, but there was no one there the first time. An hour later he would actually come. That happened particularly when he was expected home from sea "

> Another lady, Miss R., gave the for lowing account, which shows that the vardogr does not merely announce what might naturally be expected, but conveys impressions of facts quite un-

> known to the person hearing it: "It was in the year 1901. I was staying in Christiania with my uncle and aunt, who had no children of their own. Uncle and aunt went away for two days and intended to come home between 11 and 12 in the evening. The servant girl had gone home that

> "I was just about to undress when I heard them come. I heard the sound of the street door, heard them come upstairs and open the half door and talk to each other. It seemed to me that uncle carried something heavy. and I heard them talk about 'being careful. I wondered what they could have brought bome with them. I expected to hear them open the room door and go in, but suddenly all was

exactly the same noises. This time they really came, and they brought s little cousin with them. She was fast saleep, and they had to be careful not to wake ber. Next morning I told them what I heard, and uncle said:

have only heard a vardogr." Innumerable other instances just as in Black wood's.

two sheriffs, gowned in flowing dark blue robes trimmed with fur.

In Norway, or at least in certain

in the town of Drammen:

or four of us together and rushed out to the kitchen to be the first to wel-By the use of a little ingenuity all come him. But there was no one she had heard nothing. We thought that perhaps he had gone out again. but no-there was no one. So distinct ly had we all heard him, however, that my youngest sister, who was rather nervous, burst into tears, thinking it time she had heard his vardour, but my mother, who was well accustomed

papa's vardogr, and now we know for

morrow. "Sure enough, an hour afterward we

night, so I was alone in the bouse

"About ten minutes after I heard That is not so wonderful. You

striking might be cited.-W. A. Oragie

# Picturesque Ceremony That Accom panies a Criminal Trial.

The setting of a criminal trial in Loncon is in striking contrast with that of any similar scene in an American courtroom. The opening of court in the morning and after luncheon is a curi ous ceremony, according to T. Leam ing's "A Philadelphia Lawyer In the London Courts." The bar and audience rise and through a door corresponding to the one by which the vis-Nor has reached the dias enter the

Then comes the undersheriff, in very of the common sergeant is of somber

The judge having seated himself in a chair-so cumbersome as to require a ly close to the desk-the sheriffs dispose themselves in the seats not occupose themselves in the seats not occu-pled by the judge or his guest, and later they quietly withdraw. They

By establishing the grades of said streets;

By grading that part of said streets later they quietly withdraw. They and out and to entertain them at luncheon, for the judges are by custom their

At luncheon time the sheriffs escort judges, sheriffs and undersheriffs and concrete sidewalks, any guests they may invite assemble tablished by the ordinances of Tilla in the dining room of the courthouse for an excellent substantial luncheon served by butler and footman in blue

bright scarlets and the wigs of the party, who, no longer on duty, relax into jolly sociability. Indeed, the viscannot escape the impression that ing a light supper between the cho-

## KING OF FRUITS.

To Eat a Durian You Must First Over come Your Sense of Smell.

The east furnishes in the durian one of the strangest of fruits. It has been called "the king of fruits, as the orange is the queen," but there are many who entertain no liking for it.

There is this difficulty about the durian. Its consumption presents the mme obstacle to enjoyment as a ripe cheese. To eat a durian one must first overcome one's sense of smell. The odor of the durian suggests limburger cheese, onion sauce, brown sherry and

sense of smell is not overdelicate con tend that the durian is like rich buttery custard flavored with almonds.

A British officer at Penang once diped a member of parliament about to leave for home. Among other delicacles an overripe durian was placed upon the table. The guest, on being pressed to partake of it, declined, with

this remark: "It may have been very good last season, but if you will excuse me I would rather not venture on it now."

The durian is as large as a man's head and is covered with sharp spines It grows upon a large tree, somewhat similar to the walnut. When ripe it falls, and if it should strike any one the chances are that it would inflict damage. The natives, knowing the danger of a blow from a falling duriau. stretch rets under the trees in populous places so that the fruit may be caught as it falls .- New York Sun.

# A senator was condemning a piece

of political deception. "The thing was as dagrant," be sald. "as the railway case. Two men, one

of them very short, were passing through a station toward the train gates, when the bigger one was heard "'I've took a half ticket fur ye George.

"'But,' protested George, 'bow about my beard?' And he twiddled his chin beard nervously. "'Oh,' rejoined the other, 'tell 'en-

Yer so little ye'll pass ull

It's a mole." "- Washington Star. Bildad's Car. "Well, Bildad," said Jimpsonberry "I suppose, now that you are living our in the country, you have a car."

"Yes," said Bildad "That is. my neighbors and I have one together." "Realty?" said Jimpsonberry. "Co operative arrangement, ch? Not a bad idea. What make is it?" "Oh. just plain trolley."-Judge.

A Mere Man's Opinion "Do you mean to tell me," demand ed Mrs. Whackburst, "that it is a bac thing for a woman to have an aim in 115e 7 "I do," said Whackhurst, "especially if she's going to throw bricks. She

A Change of Tone. Von Blumer (roaring with rage)-Who told you to put that paper on the wall? Decorator-Your wife, sfr. Von

might hit something."-Harper's.

Blumer-Pretty, isn't it?-Exchange Life is a tragedy wherein we sit as spectators awhile and then act our part M-Swift.

Determination to Improve and the Time and Manner of Improving the following Streets in Tillamook City. Oregon.

RE IT RESOLVED .- That the Com mon Council of Tillamook City, Oregon, hereby declares its determination to improve the following streets: The South side of Second Street from the Northeast corner of Lot 2, Block 2, Maple Grove Addition, West to Third Avenue West; both sides of Third Street from Stillwell Avenue to Third Avenue West; the South side of Fourth Street from Third Avenue West to Sixth Avenue white ruffled shirt, white stockings, silrer buckled shoes, cocked hat under Avenue West; the West side of First Avenue West from Third Street the case of the lord chief justice or side of Third Avenue West from Second Street to Fourth Street; the East side of Third Avenue West from Second Street to Fourth Street; the of brilliant scarlet, with a dark blue West side of Third Avenue West from Fourth Street to Fifth Street; both sides of Fourth Avenue West from Fourth Street to Fifth Street; both sides of Fifth Avenue West from Fourth Street to Fifth Street, and the East side of Sixth Avenue little track to roll it forward sufficient | West from Fourth Street to Fifth Street, in the following manner:

bave no part in the proceedings. Their necessary for the construction of sidewalks on the portions of the streets hereinbefore designated, on the sides thereof hereinbefore named, and by constructing upon the sides of the streets hereinbefore specified concrete sidewalks, in acthe judges from their seats, and all the cordance with the specification for heretofore es

mook City.
All of said improvements to be made in accordance with the charter and ordinances of Tillamook breeches and white stockings.

The luncheon table looks odd with the varied costumes, the rich blues, the especially benefitted by said imestablishing the grades of said streets, and the expense of all en gineering and surveying necessary tor cannot escape the impression that for said improvement to be done be has in some way joined a group of by and under the direction of the "supes" from the opera who are snatch-ling a light supper between the choland included in the assessment district; advertising, mailing and publishing of notices required to be advertised published or mailed; accounting, clerical labor, books and blanks expended or used by the city and the city recorder or city treasurer in connection, with said improvement, and all salaries of inspectors and all necessary cost of inspection in connection with said improvement, shall be paid by warrants drawn on the general fund

of the city.
All of the Lots, Blocks and Parcels of land described as follows constitute the proposed assessment district for the construction of the sidewalks: All of Blocks I and 2; the North half of Block 3; the North cheese, onion sauce, brown sherry and other incongruities. It has also been compared to the smell of a limekiln in full operation.

The Malays are excessively fond of the fruit, and those Europeans whose sense of smell is not overdelicate con street; also all of that certain Tract of land 105 feet North and South adjoining the South side of Third street and lying between Stillwell

Avenue and First Avenue West. The work shall commence within 10 days after the signing of the contract, and be prosecuted with such vigor that all of the improvement work embraced in the plans and specifications shall be entirely completed on or before the date herein after stated

The contractor or contractors shall complete the foregoing im-provements within the time fixed by the Common Council, towit: on or before December 1st 1912, and in commencing said work shall continue without delay until com pleted and if the improvements be not completed within the time fix- this section of the Pacific Northed by the Common Council, Tilla mook City shall be paid damages to the amount of TWENTY FIVE (\$25.00) per day for each and every day beyond the date stated, which amount ments will join with the citizens of shall be paid by the contractor un-less the time for the completion of Toppinish in feeling of gladness. improvements is extended by the Common Council of Tillamook City 30, 000 yards. Oregon.

The sidewalks shall be laid only in dry and suitable weather. Upon completion of the improvements in accordance with the plans and specifications of the City Surveyor and as shall be provided in

being accepted by the Common ges ion and regulate her bowels. Council of said City, said contractor For sale by all dealers. shall be paid for said improvements in accordance with the of the contract and the Charter of That the contractor to whom the contract is awarded will be require

ed to furnish a surety bond for the

faithful performance of the contract for a sum equivalent to the full amount of the same, having as surety thereon, some Surety Company satisfactory to the Mayor and common Council, authorized to do business in the State of Oregon, and before acceptance of the work by city, successful bidder shall furnish the Mayor and Common Council with a guarantee maintenance and their knowledge of the many bond equivalent to 50 per cent of remarkable cures of colic, diarrhoea the amount of the contract, guaranteeing that for a period of years from the completion and layng of said concrete sidewalks in proposed improvement district, he will at his own expense repair and make good any defects arising from faulty materials or workmanship and due to the proper use of said sidewalks as such.

The City Recorder is hereby authorized and directed to advertise for a perio of ten days by publishthis resolution and notice, ask ing proposals, in one issue of the Tillamook Headlight, on the 5th day of September, 1912, and to post this resolution and notice asking proposals, on or before said date in three public places, in Tillamook City, Oregon, inviting proposals

OPENING COURT IN LONDON. Resolution Providing for the for doing of such improvement work in form substantially as followed lows, to wit:

NOTICE ASKING PROPOSALS FOR IMPROVEMENTS.

Sealed proposals will be received at the office of the City Recorder of at the office of the City Recorder of Tillamook City, Oregon, until the 16th day of September, 1912, at 6:00 o'clock, p. m for the improvement of the following streets by construct-ing concrete sidewalks on said streets. Said improvements to be done in accordance with the Charter, Ordinances and Resolutions of Till-

amook City, Oregon.

The South side of Second Street from the northeast corner of Lot 2, Block 2, Maple Grove Addition, West to Third Avenue West; both sides of Third Street from Stillwell Avenue to Third Avenue West; the South side of Fourth Street from Third Avenue West to Sixth Avenue West; the North side of Fifth Street who is arrayed in wig and robe, which, who is arrayed in wig and chief instice of First Avenue West from Second Street to Fourth Street; the East Avenue West from Third Avenue West; the West side of First Avenue West from Third A Street to Fourth street; both sides of Second Avenue West from Second Street to Fourth Street; the East side of Third Avenue West from Second Street to Fourth Street; the West side of Third Avenue West from Fourth Street to Fifth Street; both sides of Fourth Avenue West from Fourth Street to Fifth street both sides of Fifth Avenue West from Fourth Street to Fifth Street, and the East side of Sixth Avenue West from Fourth street to Fifth Street.

The improvements must be completed on or before December 1st,

proposals must be accom-The panied by a check payable to the order of the Mayor of Tillamook City, Oregon, certified by a respon-sible bank, for an amount equal to 10 per cent of the total amount of bid submitted to be forfeited to the city as fixed and liquidated damages in case bidder refuses to enter into contract and provide a surety bond equal to the amount of the contract for the faithful perform-

ance of the work. The council reserves the right to reject any and all bids.

Before acceptance of work by city, successful bidder shall furnish the Mayor and Common Council with a guarantee maintenanace bondequal to 50 per cent of the amount of the contract, guaranteeing that for a period of five years from the com-pletion and laying of said concrete sidewalks in proposed improve-ment district, he will at his own expense repair and make good any defects arising from faulty material or workmanship, and due the pro-per use of said sidewalks as such.

both gravel and broken rock concrete. Done by order of the Common Council of Tillamook City, Oregon, of date September 2nd, 1912.

[SEAL.]

T. B. HANDLEY,

City Recorder of Tillamook City,

Proposals will be received for

## Oregon. EXTENSIVE IMPROVE-

## MENTS AT TOPPENISH. An Unusual Large Yardage for Street Improvement Let in One Contract for Bitul-

ithic Pavement. The citizens of Toppenish are celebrating the recent victory of the enterprising element that has steadfastly fought for progress in the recent contest over the question of hardsurfacing the streets of Top. .

penish. The council spent a long time ininvestigating the merits of all the various kinds of hardsurface pavement and the joyful attitude of the average citizen of this progressive Washington city is the result of the council's deciseon in favor of

bitulithic The contract is one of the largest ever let in a city of similar size in west. All who favor 'the best and cheapest in the long run" as a permanent policy for public improve-

The contract consists of about

Running up and down stairs, sweeping and bending over makbeds will not make a woman hea'thy or beautiful. She must et out of doors, walk a mile or two every day and take Chamberthe contract, and upon the same bin's Tablets to improve her di-

> Few, if any, medicines, have met with the uniform success that has attended the use of Chamberlain's Cholera and Diarrhoea Remedy. The remarkable cures of colic and diarrhoea which it has effected in almost every neighb hood have given it a wide reputa-tion for sale by all dealers.

> The implicit confidence that many people have in Chamberlain's Colic, Cholera and Diarita Remedy is founded on their Diarriloea perience in the use of that remedy and their knowledge of the many and dysentery that it has effected. For sale by all dealers.

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# APPENDICITIS

BOOK FREE! The Adler-i-ka book, telling how you can EASILY guard against appendicitis, and how you can relieve constipation or gas on the stomach INSTANTLY, is offered free this week by J. S. Lamer, druggist.

FOR EXCHANGE, desirable city property in Medford, Ore, for acreage near Tillamook. H. C. Gioscock, 256 Realty St., Medford, Ore