MANY ARE NOW BUILT ON UPPER FLOORS.

In Recent Years They Have Been Greatly Improved in Construction and Finish - The Finest Are Made of

"It does seem odd, certainly," said a builder of bowling alleys, "to think of bowling alleys on upper floors, but we are putting them there, nowadays. Until within very recent years the bowling alley, in cities at least, was always to be found in a basement. Now nobody about to build new alleys would think of installing them there.

"This liberal elevation of the alley has been brought about by the cleva tion of the game and by great improvements in the construction of the alleys themselves. The first of these new conditions brought in many new players who demanded more agreeable surroundings, the second has made it possible to put bowling alleys

The elevation of the game is due to the players themselves, acting through the American Bowling Congress, composed of bowling clubs and leagues, and now including the great majority of the bowling organizations east of the Rocky Mountains, if not in the whole United States. There has been adopted a standard bowling alley; and alleys made to conform to American Bowling Congress requirements are the same as to measurements everywhere. They may, of course, be poorer or better, comparatively, as to the materials used and as to their construction.

"Bowling alleys in recent years have been greatly improved in construction and finish; in fact, in every way. In old times in the construction they would lay leveling strips along on the floor where they were to build the alley, and then put down the alley bed of yellow pine or of maple, 3x1 inch stuff set on edge and blind nailed, as you nail down a fine floor. The very finest of the present-day bowling alleys are made with the ends the end upon which the pins are set and the end near the foul line which receives the impact of the ball when first set rolling-of maple; the long intervening space being of Norway pine, this stuff of the usual dimensions, 3x1 inches, and made, of course, to lie on on edge in the alley bed, being all tongued and grooved on the deep sides.

"In building the finest and costliest alleys of such materials, the stuff is not laid down on the levelling pieces and nailed there, but the bed is built standing up on its edge beside the place it is to occupy. Strip after strip is laid up until the entire alley seventy-five feet or more in length, including the runway, has been built up into one continuous structure. strip secured to strip, and the whole held togethed by steel clamps. The bed thus built is then tipped down into its proper horizontal position on the levelling pieces and made fast there, the top being then levelled and finished and polished.

"An alley bed of that character would be likely to be a revelation to a man not accustomed to bowling alleys, It seems almost white in color, or like a pale yellow translucent glass, and it looks as though it were as smooth as glass, or as the top of a plane or any other piece of polished cabinet work. It is some sort of fun to roll ten pins on an alley like that, to say nothing of the aid to good rolling afforded by its accuracy and smoothness of sur-

"And then, Ir you hadn't been around in bowling alleys much in late years surprise you, say, the return chute, patented, of course, that carries a ball returned from the pit back to the player along the level of the alley-bed. and lands it finally up in the trough besides the runway at the old convenient level. This is a surprisingly simple thing. Instead of being supported on standards placed along the side of the alley at a sufficient height above the floor to give the slope required to carry the ball back to the players' end of the alley, the chute drops abruptly, close to the pin end. This sudden drop gives the ball an impetus that carries it rapidly along the chute at the level of the alley bed to the players' end, where there is an abrunt rise in the chute corresponding to the abrupt drop at the pin end. This rise at the players' end is so constructed as to permit the ball just to surmount it, and then to roll on back to its place in the trough very gently. In a riers. room filled with bowling alleys that were equipped with return chutes of this kind, you get a quite unobstructed view of the whole room clear from

"Not everybody goes in for that sort of outfit, however. Less costly alleys are built of maple throughout, for instance, and the return chute carried on standards in the usual way are

"A modern bowling alley of perfect construction does not give you half the thunder in rolling balls on it that you get of necessity from the old tim-With the alleys laid on a suitasubfoundation the sound is further reduced fifty per cent at least; and built in this manner, they are now put in on upper floors without disturbing the tenant on the floor below. There is a bowling hall on the floor above one of the best restaurants in Chicago

"Chicago is ahead of us, in fact, in "Chicago is ahead of us, in fact, in the actual development of bowling under the new order of things. There are in Chicago now fifty or sixty bowling establishments on ground floors; there are desens of bowling establishments there on upper floors.

"Here, including those of private clubs, we have a considerable number of bowling places on the ground floor, but as yet only a few, perhaps not so

many as half a dozen of upper floors. But we have some fine establishments for bowling above the ground. In Brooklyn there has been opened lately an establishments with six alleys on the second floor, and eight alleys on the third floor. The latest upper-floor bowling establishment, one with ten alleys in a row, has just been opened in this borough, on the fifth floor of a business building in the hotel and theatre district of Brondway. You see at the door of this building a sign that only a few years ago you would never have looked to see anywhere. Take elevator to Bowling Academy.' you will see many such."-New York

WISE WORDS.

Nothing is gained by depreciating the difficulties of any undertaking. To look them in the face courageously, and to estimate them fairly, will generally enable us to overcome them; while, if they are hidden or ignored, they will, all unconsciously to ourselves, bar the way to success.

Home is the first and most important school of character. It is there that every human being receives his best moral training, or his worst; for it is there that he imbibes those principles of conduct which endure through manhood.

When you make a mistake, do not look back at if for long. Take the reason of the thing into your mind, and then look forward. Mistakes are lessons of wisdom. The past cannot be changed; but the future is yet in your power.

We are apt to measure ourselves by our aspiration instead of our performance. But in truth the conduct of our lives is the only proof of the sincerity of our hearts.

Every person is responsible for all the good within the scope of his abilities, and for no more, and none can tell whose sphere is the largest.

Nothing brings more substantial joy than a day's work well and honorably and successfully done.

The high lights of existence are dazzling, but the shadows are more agreeable in the long run.

Not wealth nor ancestry, but honorable conduct and a noble disposition make men great. Jealousy is sustained as often by

pride as by affection. The greatest homage we can pay to truth is to use it.

Moral Truths From Mr. Wu.

This is an old story of the Chinese Minister, Wu Ting-Fang, in a new form. A reporter had been commissioned by his newspaper to interview Mr. Wu. Following his usual artless Chinese custom Mr. Wu asked the reporter how much salary he received. "One hundred and fifty diolars a

week," he answered. The familiar comment was at one forthcoming, "It is too much. It is altogether too much. You are not worth more than \$25 a week."

Some time afterward, while talking with other newspaper men, the Minister learned that the reporter had deceived him, and that instead of recelving \$150 a week he was paid not more than \$60. Accordingly the next time he called at the Chinese legation in search of information Mr. Wu thus dismissed him:

"You lied to me about your salary If you will lie about such a thing as that you will lie about anything. I do not trust you. I have nothing to say to you. I want to revise my former estimate of your value. Instead worth anything, sir."-Youth's Companion.

The multimasted schooner is developing into an important factor in the ocean carrying trade. Originally a twomasted craft, with fore and aft sails. it has evolved by regular steps of progression into a seven-masted vessel whose sails can be all handled from the deck. Two purposes are thus secured. First, the element of safety in the navigation of the vessel is increased, as the sail area may be reduced without difficulty or danger whenever desired and under any weather conditions, and without arresting her headway. Secondly, the rig is the most economical of all to operate. The sall area is divided up so that a comparatively small crew can handle the canvas, and reef and unreef, furl and unfurl, without leaving the deck. The latter feature makes the multimasted schooner the most profitable of all classes of ocean car-

Small Men For the Army. A surgeon of the British army who has had much experience in passing recruits argues for little men for fighting purposes, believing that the idea is old and obsolete that a man cannot be a good and efficient soldier unless he measures a certain number of feet and inches in height. In modern warfare, where the issue of every fight is usually decided at a distance, stature counts for little and is rather a disadvantage than otherwise. This officer therefore suggests the reducing to a minimum of five feet the standard height of all recruits for mounted infantry and light cavalry.

Boston's Big Lobster. One of the largest, if not the largest, lobster ever seen in Maine will be forwarded to a Roxbury (Mass.) fish dealer. The crustacean, which measures four feet from the tip of the clay to the tip of the tail and weighs to nty-three pounds, was caught in a sawl a few miles off the shore of Grand Main length and its circumference is twenty inches. A lobster similar in size was taken a few years ago off Grand Manan, and is now in the Smithsonian Institution, Washington, D. C.—Boston Transcript.



British mining engineers have discovered vast resources of coal in Man-Itoba, Assinibene, Alberta, Saskatche wan and Athabasca, British America

Electricity has just been employed in a new capacity. A confectionery firm in St. Louis, Mo., is using an electrical device for cracking nuts, one machine cracking about five tons of nuts a day.

A human body contains some of the small things of nature. The blood, for example, is a colorless liquid, in which little red globules are floating. Every drop of it contains about a million of the globules, and they are susceptible of division into smaller globules still.

According to the Medical News Lon don medical science is being directed toward the elucidation of the problem of the causation of cancer. A cancer research laboratory has just been opened at the Middlesex hospital, to be entirely devoted to the systematic investigation of cancer,

The total annual production of timber and firewood of the German for ests is estimated at 38,000,000 tons. and this is supplemented by an import of 4,600,000 tons. The material progress of the country would not be possible had it not the large home production to fall back upon.

The longest stone arch bridge in th world is under construction at Luxembourg, over the valley of Petruffe This arch will have a span of 277 feet and a rise of 102 feet. The total width of the available roadway is fifty-two feet, and this width is divided into two parts by a space nineteen feet wide, covered by slabs of armored concrete and carrying the footways.

The size of eggs among nesting birds ranges from that of the ostrich to that of the humming bird, it being prima rily dependent on the size of the bird. but also on the condition of the young at birth, the eggs of birds whos young are born feathered being pro portionately larger than the eggs of those whose young are hatched naked. The period of incubation is more or less closely related to the size of the egg, being about fourteen days in the humming bird and forty-two in the

The nickel mines of Canada now produce about forty per cent, of the world's supply, although the metal was not discovered in paying quantity there until about fourteen years ago The deposits are found near Sudbury in Ontario, within an area of forty by seventy miles. The ore contains about three per cent. of nickel, the same quantity of copper, and some iron and sulphur. It is worthy of note that the ore is not worked in Canada. but is sent to this country for the extraction of the metals.

A combination of a fire engine and hose cart, which is operated by elec-tricity, has recently been invented. The motive power employed in pumping obviates the necessity of a steam boiler. This gives much additional room that is used for the coll of hose. The motor of the engine is connected of being worth \$25 a week you are not | with the trolley wires of car lines, and branch wires are run from these to places where hydrants are situated. The vehicle is very light, and all that is required to get up steam is to attach the wires to the motor.

Why Spiders Are Not Insects.

The spider is not an insect, though probably nine people out of ten would class it under this term. With scorpions and mites spiders form a class in the animal kingdom known as Arachnida. This name is derived from a mythical personage called Arachne, the daughter of a purple dyer of Lydia, who was fabled to have challenged Minerva to a trial of skill in spinning. So indignant was the goddess at this act of boldness that she forthwith transformed the hapless challenger into a spider, presumably in order that she might have the best possible opportunity of practicing the art on which she prided herself so much.

Spiders differ from insects in five main particulars. Their eyes are simple instead of compound, they have eight legs in place of six, they do not pass through the metamorphoses which are characteristic of insects, they have no antennae and their breathing is accomplished by means of organs which combine the functions of lungs and gills, instead of by tubes pervading their bodies. These points of distinction are sufficient to determine the fact that it is impossible to class spiders as insects,

England's Old Common Field System. A "Common Field" is quite distinct from a "Common." It is a field belonging to numerous owners. The land consists of long narrow strips, perhaps not more than ten yards wide and running parallel with one another. What are the exact rules of cultivation that obtain in Kent to-day we do not know, but of old it was usual to have a regular rotation, such as wheat one year, barley or oats the second and fallow the third. When the crops were har-vested, each member of the community getting his or her share, all could nan, N. B. Its body measures two feet put in their cattle, which roamed over in length and its circumference is the whole field, feeding on the stubble,

RURAL HYGIENE.

The Possible Influence of the Country Doctor on Public Health.

Prevention rather than cure is the great object of medical science to-day, and while the city has its peculiar perils, so has the country. In a recent essay in the New York Medical Rec ord, Dr. George M. Kober, of Washing

When we consider the fact that over seventy per cent. of our population re side in rural districts, that the "bone and sinew" of these are engaged in agricultural pursuits, and that they do not enjoy the benefits of enforced santtation by local health boards, we see at once the desirability of the family physician extending useful suggestions on healthful building sites and homes disposal of house wastes, the import ance of a pure water supply and wholesome and properly cooked food. As it is now, the diet is faulty, especially the hot biscuit and greasy fried dishes, while wells and privies are often dangerous neighbors. The undue prevalence of typhoid fever in rural districts could be materially checked by disinfecting excretes with three times the volume of boiling water and the adoption of the earth closet system. This is all the more important since infection is often spread through the milk supply, and many of our urban population contract disease in the country during the summer months. While prompt disinfection of the excreta is the only rational method, we should also make an effort to get rid of the flies by prompt disposal of the horse manure in which they breed, the abandonment of open privies and surface pollution, removal of garbage and other fly breeding matter,

A Korean Prison.

In an entertaining article on Koreathe country which Russia covets and which Japan must have—the Rev. Robert E. Speer has this to say upon the prisons of that half-barbarous land:

"The gate was wide open and the courtyard was full of prisoners, and the surrounding buildings were and tottering. I asked the chief. whom one of the two or three listless attendants called for us, why the prisoners did not run away. 'Oh,' he replied, 'they would be caught and beat en again and kept longer. Now they will get out soon.' But as I looked at them I saw that they did not run away because they could not. The life was beaten out of them. The keepers brought the heavy red cord with a brass book at the end and trussed up a man with it to show how the beating was done, and then brought us the stiff rods with which victims were pounded over the shins and thighs until the beaten spots were simply masses of festering rottenness. There was a room, black, foul, leprous, in which the nen were fastened in the stocks. The Black Hole of Calcutta was scarcely less merciful than this."-Leslie's

The Coming Engineer.

The engineer of the twentleth cen tury will have need of all the knowledge education can bring. The nine teenth century skimmed the cream of invention; what was on the surface has been appropriated. James Watt made it impossible any one else should have quite so brilliant a record as himself, and yet his master-stroke of invention, the separate condenser, did not need abstruse scientific attainments, although Watt was essentially scientific in his methods. So each suc cessful worker in the field of invention does something to exhaust the soil, and render needful higher fertilization for further productiveness. New vistas, however, are constantly being pened out, and, to continue of ogy, we have something like the rotation of crops in the changing instruments by which the engineer attains his ends. It is becoming more and more evident that the day of the uneducated engineer, the man who by mere force of genius accomplished results which have changed the face of nature, is being replaced by the epoch of the skilled master of methods in applied science.-The Engineer.

The Scheme That Failed.

"I say, Gaddesby," said Mr. Smith, as he entered a Peebles fishmonger's with a lot of tackle in his hand, "I want you to give me some fish to take home with me. Put them up to look as if they've been caught to-day, will you?"

"Certainly, sir. How many?" "Oh! you'd better give me three or four-barbel! Make it look decent in quantity without appearing to exaggerate, you know."

"Yes, sir. You'd better take salmon,

"Why? What makes you think so?" "Oh! nothing, except that your wife was down early this morning, and said if you dropped in with your fishing tackle and a generally woebegone look, I was to persuade you to take salmon if possible, as she liked that kind better than any other."

Mr. Smith took trout.-London An-

The Humane Society of Washington has been agitating the question of hats for horses, and its efforts are bearing some fruit. The society is intending to have made several dozen straw hats of the kind used for horses in the West Indies and in Europe, and will distribute them to the hackdrivers in order to place them where they they will do most good. The hats are provided with holes in the top through which the ears of the horse protrud The bonnet is tied neatly under the horse's chin, and as it is two feet and over in breadth, casts a shade that is ample to protect the whole head and face. A place in the top of the hat above the horse's crown is made in order to keep his topknot moist.—

Washington Times.

Hair Falls

"I tried Ayer's Hair Vigor to stop my hair from falling. One-J. C. Baxter, Braidwood, Ill.

Ayer's Hair Vigor is certainly the most economical preparation of its kind on the market. A little of it goes a long way.

It doesn't take much of it to stop falling of the hair, make the hair grow, and restore color to gray hair. \$1.60 a bottle. All druggists.

If your druggist cannot supply you, send us one dollar and we will express you a bottle. Be sure and give the name of your nearest express office. Address, J. C. AYER CO., Lowell, Mass.

Liver Pills

That's what you need; something to cure your biliousness and give you a good digestion. Ayer's Pills are liver pills. They cure constipation and biliousness. Gently laxative. All drugglats.

Want your moustache or beard a beautiful brown or rich black? Then use BUCKINGHAM'S DYE Whiteers

Lightning and the Trolley.

During a thunderstorm at any time of day, says the Kansas City Star, the lights in the trolley cars of the Metropolitan system are always turned on by order of the company. There are two reasons for it. One is for the protection of the car and the other for protection of the passengers. When the lights are on and the car is at a standstill the trolley pole becomes a lightning rod. When car is in motion, the electric curren which leaves the power house and is carried aicag on the trolley wire, passes down through a wire in the rolley pole into the motors of the car, setting them in motion, and then down through the wheels into the rails, by which the current returns a complete circuit. When a car is at a standstill the connection between the trolley and the motor is cut off, However, turning on the lights has the same effect as putting the car in motion, that is it completes the circult. That is the xact reason why the lights are on could.

during a thunderstorm. Should lightning strike a wire the flood of current would be carried with a rush to the nearest car. If this car should be in motion or the lights be turned on so that the circuiwith the rails is complete, there would be a chance that the extra cutto pass the lightning's stroke would pass down the trolley pole and through the The principle is the same as that of a lightning rod, which carries the electricity of a bolt of lightning into the ground. But when there is no connection the current of a bolt of lightning would burn out the motors of the car, and if strong enough, would shatter the car and injure the people who might be riding in it.

The United States produces 2,220 England 360 pounds.

Commuters' Care.

their trains going to and from their homes and places of business, they club together in an organization and pay an extra sum to the railroad company for the privilege of riding in special car. Every weekday the members of the Lytham, St. Anne's and Blackpool Traveling Club go from Blackpool, the Brighton of the North of England, to Manchester, 56 miles distant, in cars which were built specially for them. These cars are called the club train, though they are not coupled in one train, but join trains which leave at different hours.

summer with tourists, much to the in carriages for the regulars. members, and which now contains 60. with a definite proposition. tain number of saloon carriages she be placed at their exclusive disposal.

The company accepted the proposi-tion and built three special carriages, each seating 35 persons. They are fitted with lounges and armchairs. A smoking room occupies the center of the 50-foot car, and at one end is compartment especially for an attendant, who is supplied by the company, and who provides light refreshnents for the members of the club and attends to the wants of the travelers. No friends or guests of the members are allowed to travel in these cars The election of new members is in hands of the president, secretary and a committee, and to a committee least eight members is given the right to expel any member whose conshould cease to be a member of the

The Prayer Before Gettysburg.

General Daniel Sickles tells a story illustrating the tenderness of President Lincoln's heart as well as his faith in Providence and his begutiful optimism. After Sickles had been wounded at Gettysburg he was removed to Washington, and the Presito the power house. Thus the troi-dent called on him at the hospital ley wire, the car, and the rails form When the general described the battle and the awful slaughter, "Lincoln wept like a child." "While the two and armies were converging," said Lin-coln, "I went into my room and prayed as I never prayed before. I told God that if we were to win the battle He must do it for I had done all that I I went from my room with great load lifted from my shoulders, and from that moment I never had a doubt as to the result. We shall hear good news from Grant, who has been pounding away at Vicksburg for many months. I am in a prophe many months. I am in a prephetic mood to-day, Sickles, and I say that you will get well," "The doctors do not say so." "I don't care, Sickles; you will get well," persisted the President. And that afternoon, General Sickles goes on to say, a telegram was received from General Grant, annound ing the fall of Vicksburg. His own recovery soon followed.

> his good name he'd better not have it engraved on his umbrella.

When English commuters can't get be accommodations that they want on

The Blackpool Line, running be-tween Manchester and the watering place, always had its ears filled in convenience of business men and regu-lar travelers. So the first class sea-son ticket holders asked the Lan-cashire and Yorkshire Railway Co. if better accommodations could not be furnished, and in an effort to do away with the trouble the company reserved certain compartments in the railway lidn't please the transients, and was discontinued. So the regulars organwas guaranteed to contain at least 40 and then went to the railway company agreed to pay an extra fare if a cer-

It is likely that a similar club train will be established on the railway running between London and Brigh-

The Purity, Simplicity and Effectiveness of Garfield Headache Powders make them the most desirable agency in the cure of pain. Foo much importance cannot be estached to the fact that these Powders DO NOT HARM.

If a man doesn't want to be robbed of

Mrs. Winelow's Soothing Syrup for children tecthing, soften the gums, reduces inflamma-tion, allays pain, cures wind colic. 25c a bottle

Western Siberia affords a good market or American manufacturers of milk cans

Piso's Cure for Consumption is an infallible medicine for coughs and colds.— N. W. SAMURL, Ocean Grove, N. J., Feb. 17, 1900. There are in the world twenty-four presidents and only twenty kings.

W. H. Griffin, Jackson, Michigan, writes:
"Suffered with Catarrh for fifteen years,
Hall's Catarrh Cure cured me." Sold by
Druggiets, 75c.

Married women are usually advocates Take Carfield Henduche Powders.

The ingredients are simple, and carefully selected from remedies that are known to be harmless and effective. Send to Garfield Tea Oo., Brooklyn, N. Y., for samples. The man who sinks an oil well doesn't diject to running his business into the ground

From the Atlantic ocean to the head of Lake Superior a vessel may sail in Canadian waters a distance of 2,260

PUTNAM FADELESS DYES are fast to sun-

In a certain Western State there are two families, one named Day and the other Sunday. They are neighbors. Mr. Day is the father of seven girls, while Mr. Sunday has an equal number of boys. Four of the sons have married Sundays, another is engaged, so it now appears that "every Day will be Sunday by and by."

One size smaller after using Allen's Foot-Ease, a powder for the feet. It makes tight or new shoes easy. Cures swellen, hot, sweat-ing, aching feet. ingrowing nails, corns and bunions. At all druggists and shoe stores, 25c. Trial package FREE by mail. Address Allen S. Olmsted, Le Roy, N. Y.

The trouble with the budding genius is that he is frequently nipped in the bud.

No matter what alls you, headache to a cancer, you will never get well until your bowels are put right. Cascanars help nature, cure you without a gripe or pain, produce easy natural movements, cost you just 10 cents to start getting your health back. Cascanars Candy Cathartic, the genuine, put up in metal boxes, every tablet has C. C. c. stamped on it. Beware of imitations.

American wheat has been found to be excellent for the manufacture of Italian

Frey's Vermifuge Cures. Children relieved and absolutely cured. Reputation of 60 yrs. 25c. At Druggists. There is a demand in Germany for smoke consuming furnaces.

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Hooms Free Junior of Santor Year Colleg-its Courses, Roums to Rent; moderate

charge, St. Edward's Hall, for boys under 15, The 58th Year will open September 16-th,

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A LUXURY WITHIN THE REACH OF ALL!



"What Do The Nets Contain?"

The net is cast, the net is filled, But what does it contain? The guesses of the men are stilled As at the ropes they strain, The catch is yet uncounted, and Excitement reigns on every hand-What will the capture mean!

The net, with contents yet concealed-Like our new Premium List, Has prizes that are unrevealed, And therefore, yet unmissed, Conjecture will be very rife To know what presents rare, For children, and for man and wife, September first will bare.

Remember on that day to go To grocer and persist
That upon you he should bestow
LION COFFEE's newest List.
If he's without then't write to us,
A two-cent stamp inclose;
You'll get it without further fuse-The LION promptness shows.

Watch our next advertisement.

Just try a package of LION COFFEE and you will understand the reason of its popularity.

VOOLSON SPICE CO., TOLEBO, CHIC