

WITH ILLUSTRATIONS BY DON C. WILSON

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CHAPTER V.

It was the afternoon of the fourth apart from them sat two women. day when Jean, fearing lest Laro Meureux, Pierre having already gone called out, "Aha, my young mate, is it at to see some of his military friends. thyself? Welcome, my sea-gull!" The air was crisp, and Jean, walkg rapidly, was turning the corner of hen he saw Laro approaching. .

out, a smile lighting his dark face. "I was but just coming to see you. I put | neau, permit me to present to you to sea this night."

Jean started and stared.

"Aye; this very night with the is as dear to me as an own son." 'Aigle' set sail for Louisiana," continued Laro. "Would you not like to go with me-you and Pierre? I will take both, if you but say the word."

Jean's cheeks were filled with sudden color, and his eyes sparkled with the words, so engrossed had his excitement. But this all passed away as he said sighingly, "Aye, I would confronting him from the other cor- then put through the opening, and like to go; but-"

"Then it is but for you to come," urged the tempter.

Jean paid no heed to this, but inhaste?'

wealthy royalist who has fled from worth my while to carry them to me?" And she smiled again. Louisiana, where they will seek new

over seas. Come with me, I say, and "Aigle" that night. you'll reap more gold in shorter time rmness. "You have said you would being. coming and going; so some day I "Since last summer," she answered;

around a table at the farther side were several men, while somewhat

As Thiel entered, with Jean close might come to seek him, and thinking behind him, the men ceased talking, that perhaps Greloire also would be and stared with evident displeasure coming, decided to go to Le Chien at the boy-all except Laro, who

He put out an inviting hand: then. as the lad came to his side, he said. e street leading down to the inn, turning to a slenderly built man of middle age seated next him, with an "Ha, runaway!" the latter called elbow on the table and a hand supporting his cheek, "Count de Cazemy young friend, Jean Lafitte, who is some day to be my mate, and who

> The count did not enange his positien, but stared moodily at the handsome boy while murmuring a courteous acknowledgment of his presence. As for Jean, he scarcely heard senses become with the beautiful face ner of the room.

The young lady was looking at him; and from her clear blue eyes there flashed a smile that opened the red quired, "Why are you going in such lips to show two rows of little pearl- is sorry to leave thee behind," he said like teeth, as she said in a voice "Well," replied Laro, lowering his whose sweetness held yet a note of tone. "There is in the city a certain command, "Come over here, pretty boy, and talk to me. I was feeling Paris with his daughter Roselle, a lonesome in this dreadful place, and most beautiful demoiselle of eighteen. if the sight of you is so pleasant, He and a few others have made it what may not your words do to cheer

He knew her to be the count's "Come, lad," he added coaxingly; and he felt a still more poignant remake a run of it, and come with me gret that he was not to sail in the

"Have you been long in Toulon?" than did ever an aristocrat of France." Jean inquired, somewhat at a loss "Not on this trip, Laro," replied | what to say, and yet longing to man-Jean, calmly, but with unmistakable lifest his sympathy for so lovely a



"I will give you this ring of mine."

will turn my back upon France and | and bent toward him as from a sudden

Laro, although with evident reluc- you, and yet who from the moment tance. "But you'll not speak to any you looked into their faces seemed one of our sailing to-night?"

"Nay-not I. Why should I?" asked Jean, as he opened the door. "I'll see you again before sailing-

streets, seeing nothing for a time. He smile as he replied, with a gallantry was going toward home, and had al- hardly to have been expected in a most reached the narrow street upon | lad of his age, "Never-until this mowhich stood Margot's cottage, when | ment." he saw approaching that which sent his dreams flying, and with them all thoughts of Laro and Louisiana.

It was Greloire, who appeared to have seen him at the same moment; for he paused, as if waiting for the scarcely caught her words, "Is he reboy to come near.

"Tell me-have you seen him? What said he?" Jean demanded, before they had gone half a dozen steps. "Never mind whether or not I have seen him," replied Greloire, rather slowly. "Let it suffice that he knows its tone, coupled with that which a veritable fury impersonated by this in the De Soto block in Indianapolis of my having met with you, and of showed in her face, caused Jean to same newly-arrived cook. She hurled since 1894, will be moved to the Newyour anxiety to see him. But he bids you, with his love, to stop at home for the present. Wait quietly here, as he asks of you, and you will be sure to see him in a short time."

"See him-here!" exclaimed the boy. "How can that be?" and you shall see. He was not pleased | I feel this Laro must be." that I ever thought to encourage your leaving the city; and so you must

promise not to attempt it." A rebellious light shone for a moment in the dark eyes turned to meet | him. the soldier's stern look. Then it was gone, and Jean answered with a deep wigh, "Yes; I will do as he wishes."

It lacked but a few minutes of eight o'clock, and the neighborhood of Le one from her finger. "I wish you to Chien Heureux was unwontedly quiet. wear it, and to think it says always, Inside, however, there was the usual gathering of soldiers and citi-

Laro was not in the room with the loyal to what is true and right.' Will in a light or disrespectful manner of the shop. Girl cutters are employed other customers; and Jean, upon in- you have the ring say this to you?" his or her superiors or teachers; and in a number of places in the West quiring for him, was told in a low Her words touched deeply the boy's this may account for the earnestness

his own apartment. and, after bidding Pierre wait where | eled fingers. he was, and to open the door to no

one, he led the way to the passage. Dropping on his knees, he grasped a ring, and a square of the appar- hand; and the touch of her own, warm ently solid wall rolled up with a grat- and gentle, sent a thrill of delight by returns each salutation, then lights ing noise until it was level with his head, as he still knelt; and a rush of damp air, as if from out of doors, stirred the short locks on Jean's forehead, as he stared with wonder-filled eves into the dark opening that gaped love and service." before them.

A minute later the boy's eyes were she said; "for"-and a far-seeing look Vienne, who had been punished by his nearly blinded, as he followed his chased the smile from her eyescompanion into a cave-like room, with | "who shall say but that I or mine a floor of rock, which was also the may call upon you to make good your passed through the bodies of four material of its ceiling and walls. It promise?" was furnished but scantily; and Before he could reply, they were in-

impulse while she said, "Did you ever "Well, well; be it so, then," said | meet people who were strangers to otherwise?

She had laid a hand upon his shoulder, and a puzzled expression showed in his face as he looked into her earnest eyes. But this gave way to a Jean walked slowly along the half-mischievous but wholly winning

> She laughed, and drew her hand away, the wild-rose color deepening in her cheeks

The smile was gone as she said, speaking in so low a tone that he lated to you-this Laro?"

"Oh, no, ma'm'selle," he whispered: "I have known him only a few weeks." "And do you like him?"

She-perhaps unconsciously-raised her voice a little; and the gravity of stare at her with surprise.

She leaned forward until her face was close to his own.

distinctly. "I never had a brother; | ing a thief. but if I could have one. I would wish him to be like you. I should not like the puzzle. 'Why do you lock your "I cannot tell you that; only wait, it that you grew to be a man such as door?" she howled. Of course, that

Again Jean was slow in thinking asked her how she had known it was what to say; and all he did was to locked. She was only silent a moment look into her lovely face—into the in order to think up an answer. I lustrous eyes fixed so intensely upon wanted a needle, and so I went up-

"You may forget me, Jean," she re- with: 'But that was quite wrong.' I zations favorable to the majority or sumed, as he did not speak; but I was just about to send in an alarm shall hope not. Yet, for fear I may when my husband came home. He did slip from your memory, I will give the rest. We dined out."-Philadelyou this ring of mine;" and she drew | phia Record. 'Roselle de Cazeneau gave me to you; and she will always pray for youthat you may be a gallant gentleman, Japanese boy or girl could ever think declared by the Knights of Labor at tone by Thiel that the captain was in chivalric, impulsive nature; and bend- so unusual among young children. ing over the hand that proffered the When a student enters a master's

> upon the fourth finger of his left parture. The teacher, sitting in most through his young veins.

"I shall never forget you," he declared, looking up into her face; "and | ters from room to room, as in some no matter what or where I may be, of the schools in our enlightened land. you and yours will always have my

"It is now my turn to thank you."

The Old River. When night drops down over field and

At the end of the weary day, sit and dream of a rippling stream.

Ah, many a mile away.

sit and dream of a rippling stream. Of the ebb and the quiet flow; Of the reeds in ranks by the wave-washed banks
And lilies that bud and blow

From her mud-built nest in a cranny "I'll be in this port again within The swallow swoops to the tide; A swerve—a dart—and with joyous heart She shakes the spray from her side. The red sun shines through the needled am sure you will be ready to come with me. Until then, dear lad, good

To the rock of the silver sands

Though, now, mayhap, in the river's

And the water's flow through the hills,

fe., when night drops down over field

Ah, years upon years away.
-Horatio Winslow, in Leslie's Weekly.

NEWS OF THE LABOR WORLD.

Items of Interest Gathered from Many

Sources.

Labor unions of Kansas City are

again discussing plans for a labor

The Journeymen Tailors' union of

America, will nold a convention in

Bloomington, Ill., the first Monday in

The next convention of the Brick-

layers and Stone Masons' Interna-

tional union will meet in San Fran-

The third annual convention of the

International Hod Carriers and Build-

Philip Weinseimer, former presi-

were in favor of the proposition.

riers and building laborers.

owing to financial difficulties.

vania and Ohio streets, opposite the

where a suite of eleven rooms has

The new mill being installed in

Youngstown, Ohio, by the Republic

Iron and Steel Company, will be

equipped to roll rails as well as sheets

and tin bars. This is the first de-

parture of that concern to make rails.

bor has resolved to co-operate with

all of the demands of labor in order

toil for their daily bread."

office help \$2 a week.

deleterious combinations.

"to advance the interests of those who

The Texas State Federation of La-

been secured on the sixth floor.

ment to 900 men.

dream and dream of the rippling

There grow but the waving reeds,

I know, Is lost in the tangled weeds.

and town,
At the end of the weary day,

stream-

temple.

February, 1905.

cisco Jan. 8, 1905.

night." And he moved away, mo-And lo! on the watery floor. tioning for the others to follow. A path of red for a fairy's tread Lies stretched to the farther shore. "Good night, Jean, and adieu," said

him. "Do not forget me, nor what I one by one, in the setting sun, have said to you." They poise with their outstretched hands. She was gone, leaving the boy They poise—they leap from the rocky steep
Where the evening air blows cool. standing mute, sensible of the odor of violets, and regretting ruefully his in-And the bodies flash as the brown arms ability to have acknowledged her gracious farewell. But the sound of In the depths of the quiet pool.

his self-reproachings. "Come," the landlord said sharply-"come with me."

Thiel's voice soon aroused him from

errupted by the entrance of Laro, with Thiel close behind him; and fol-

lowing the two was Pierre, who with

open eyes and mouth stared about

Laro gave his orders hastily, but

"Good night, my boy; I am serry

clearly, after which he turned to

you are not to go with me, for I would

like greatly to have your stout heart

and strong arm aboard the 'Aigle.'

You will come with me next time?"

laying his hand on the boy's shoul-

Jean remained silent, standing with

lowered eyes, while the bell jangled

two years," added Laro, "and then I

Roselle, as she was about to pass

Pierre, who stood near him.

him wonderingly.

a second time.

The hooks of a rope ladder were soon fastened into two iron rings bolted to the rock. A coil of rope was lowered carefully, until Laro, who kept a hand upon it, felt it grow taut with a pull from below.

"Good night again, boy; my heart to Jean, who was close to him. "Goodby, again, and good luck!"

He had, while speaking, stepped through the opening, and, as the farewell came from his lips-disappeared down the ladder. Ropes were fastened under the

arms of the young girl and of her maid. One of the count's friends foldaughter, of whom Laro had spoken; lowed Laro; then the maid after him; next the count himself, and then his daughter, the two remaining gentlemen going last of all.

There was no sign of fighting when Jean and Pierre left Le Chien Heureux that night:; and the sough of meet in Minneapolis, beginning Jan. the rising wind was all that broke 1, 1905. the silence.

"Next time I will surely go," Jean said to himself, as he and Pierre, after putting out the light which Margot had left for them, took off their shoes and crept softly upstairs to their respective bedrooms. "Laro said he would return within two years; and in two years I shall be larger, and she will not call me a boy. I will go, and I will find her."

(To be continued.)

MORE TRUTHFUL THAN POLITE. Ungrateful Husband's Reply to Wife's

Plain Question. Capt. Ingersoll of the Naval War college was talking about the disaster that came near to destroying the

battleship Connecticut at her launch-"What do you think about this busi-

ness, sir?" a reporter asked. "It was unexpected," said Capt. Ingersoll. "That is all I can say-that it was unexpected. As unexpected, in fact"-and Capt. Ingersoll smiled-"as the retort that the poor man made

to his rich wife. "This poor man, being handsome, chose an elderly and plain heiress for his bride. He was on the verge of ruin at the time, living in a \$4 boarding house, and behindhand in his pay- this fight would mean the annihila- nothing can destroy us except our ments even there. Nevertheless the heiress married him, and soon he was ciation of iron and steel workers of can accomplish our defeat or disrupt driving a four-in-hand and winning America.

races with a motor boat. "But he was ungrateful. Husbands like him nearly always are ungrateful. And on account of his ingratitude there were a good many quarrels be-

tween his rich wife and himself. "One day, enraged beyond measure, she said, bitterly:

"What would you be now if it wasn't to retain the headquarters.

for my money?' "The man laughed.

"'A bachelor,' he replied."-Kansas City Journal.

An Insult to the Cook

"We had just engaged a new cook." said the young matron. "I was going out, and as lots of little things were lying around in my room, I locked the door. Imagine my surprise when I returned to be greeted in the hall by tional union, which have been located all manner of violent language at me, ton Claypool building, corner Pennsyland, surprised as I was, and incoherent as she was, I managed to make new federal building, to-morrow, "Jean Lafitte," she said slowly and out that she had been accused of be-

"Why she felt so bad about it was explained it all, and so, very gently, I she was saying, when I interrupted the Farmers' Union and other organi-

Respect for Age in Japan. In Japan there is no such thing as disrespect from youth to age. No He then invited Jean to follow him, ring, he pressed his lips to the jew- presence in Japan he bows to the floor, and when the lesson is finished "Thank you," he said, as, now with be bows again, with expressions of the a smile, she slipped the little circlet | deepest gratitude, as he takes his decases upon his feet on the flor, gravehis little pipe and walts for his next class. There is no hurrying of mas-

> Corporal's Shot Kills Three. A French infantry corporal a captain, fired at the captain with his rifle and missed him; but the bullet soldiers, killing three of them on the

The swimmers cry as they climb on high troubles in the future.

Recently published census figures show that every fifth child betweer the ages of ten and fifteen in the United States is a bread-winner. One out of three of these child workers is a girl. There are said to be 1,750,178 children regularly employed, an in crease of 331/2 per cent in ten years. Alabama has the highest percentage of child labor, finding work for 27.2 per cent of her children, while Massachusetts has the lowest, having only 0.5 per cent of her juvenile population at work.

The governing board of the Structural Trades Alliance proposes compulsory arbitration for disputes between the building trades unions and contractors. A board to consist of an equal number of contractors and union agents is proposed. The idea has not been ratified by the unions. but has been submitted to the 'contractors. The Alliance does not represent all the building trades. The proposed arbitration board would be organized on lines similar to that of the Associated Teaming Interests.

at Denver, Colo., a home for aged and indigent carpenters. A commit water and oil injected, so that on tee was appointed at the recent con- heavy loads full charges of oil and ing Laborers' Union of America will vention of the Brotherhood of Car water are delivered, while on light penters and Joiners to investigate the loads small charges are given. proposition and make a report there on. The carpenters generally are dent of the New York Building Trades Alliance, was found guilty on the said to be favorable to the proposi charge of extorting \$2,700 from tion. Leaders of the movement point George J. Essig for calling off a strike. out the success which has attended The International Bricklayers' the institution of the printers' home union, through a referendum vote, de- at Colorado Springs and the good cided not to affiliate with the Struc- work they say it has accomplished.

of labor from ten to eight a day since centage, and with the plain drunks its formation, and in securing an in- and hoboes excluded from the latter crease in wages from \$1.50 for ten | The trade unionist rarely develops hours to \$2.70 for eight hours. The any of the characteristics of the crimincrease affected a thousand hod car- inal class. It is the very essence of his creed to live by his own efforts It is announced that the immense and not by any sort of parasitism, le plant of the Acme Harvester com- gal or illegal. No man costs the state pany at South Bartonville, Ill., will less than the unionist, and no one resume immediately, giving employ- does so much for the enriching of The plant has the state, in proportion to what he rebeen practically closed for a year, ceives.

The Cigar-Makers' Journal says: The United States Steel Corpora-"The membership of the International tion has declared that \$1,000,000 will Union is greater now than it has ever be spent, if necessary, to beat the been before, having reached about Amalgamated Association in its bat- 42,000 regular 30-cent contributing tle against the Carnegie Steel Com- members. This argues well for the pany at Youngstown, O., and Girard, future and is a sure indication that O. The victory of the company in | we are on a solid foundation and that tion of the great Amalgamated Asso- own folly. No power from without the International Union. The best Among the propositions sent to a way to convert the nonunionist to our vote of the members of the Bridge | way of thinking and making him a and Structural Iron Workers' Inter- member is by the use of argument national Union is one to change the and facts. Violence and abuse make location of the parent body from New enemies and drive the nonunionist York to some other city. Among the further away from us. There is a candidates for the place are Chicago difference between the willful scab and Cleveland, but New York wants and the ordinary nonunionist. The first is viciously mean and should be The Amalgamated Association of treated accordingly, while the latter Iron, Steel and Tin Workers has is, in most cases, such owing to enadopted a novel method to regain vironments. He should be shown the some of the nonunion steel plants in error of his ways and urged by kind-Pittsburg by declaring them to be ly argument to become one of us. It "open shops" and permitting men to is the duty of the International Union work there if they wish and still be to lift up the whole craft, and all recognized as union men. The move members should apply themselves to is expected to result in a great adthis task in a rational and businessvantage to the steel workers' union. like way." The headquarters of the Interna-

One of the weak spots in the American labor movement is the lack of preparation in times of peace for war; the small war chest in the shape of a permanent reserve fund, says the Cigarmakers' Journal. What ammunition and provisions are to a regular army a strong reserve fund is to a trade union; ample to support members on strike for an indefinite time. The weapon of the Employers' Association is the lockout, the attempt to starve the employes into submission by a long struggle, with the ultimate aim to crush the organization, and reduce wages to a mere point of existence. A general at the head of an army, ignoring the commissary department in providing ample provi- side a pocket is a recent invention. It tent and should be relegated to the scope, and consist of a series of tele-

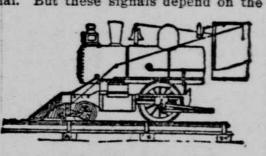
Girl cutters are now employed at the factory of the Millet-Woodbury Shoe Company, Beverly, Mass. The firm is teaching them to cut shoes with the hope of breaking the strike shows a net decrease in wages. Coal into a stick of the requisite length. mining, iron and steel working, en. The cover is described as being Union of Steam Engineers has been placed under salary for the first time manufacturing are the trades most first-class umbrella of the old style. in the history of the organization, and affected by the fall in wages. The will receive \$2,500 a year, for which report shows that about 897,000 work he devotes his entire time to the people had their wages changed durwork. The silary of the secretary- ing 1903. Of these 21,000 obtained treasurer was increased \$600, and his increases amounting to about £1,500 (\$7,280) a week, while 875,000 were re-The Department of Health of New duced in amount about £39,000 (\$189. York is preparing to make a more 794) a week. Changes affecting 78 rigid inspection of food products sold per cent of the total number of work in the city. Two extra chemists have people affected were arranged by arbeen added to investigate the extent bitration, wages boards, sliding scales of adulteration, and the department or other conciliatory agencies. The this year will spend more money changes in the first six months of along this line than heretofore. The 1904 resulted in a net decrease in the new chemists are now engaged in exweekly wages of £13,038 (\$63,450). amining syrups for adulterations or affecting 275,227 work people, against a decrease of £10.354 (\$50.388), af-James G. Woodward, who was elect- feeting 325,389 work people, in the ed mayor of Atlanta, Ga., on Oct. 5, is corresponding period of 1903. The a member of Typographical Union No. trades mainly affected were the same 48 of that city, and is one of the as in 1903.

New Oil Engine.

A new oil engine is the recent and been a member of Typographical to the use of crude oils or oils of a Union for thirty-five years. He has specific gravity that precludes their always taken an active interest in the use in motors of the ordinary type. affairs of organized labor and is Like all engines suitable for crude oil proud to be known as a mayor who the latest innovation has provision will carry a union card in his pocket. for the injection of water into the cyl-The strike of the sheet metal inder before compression. This has workers in Philadelphia and other the effect of allowing a much higher cities was settled through an agree- compression without preignition than ment with the employers by which is ordinarily possible, and it has other strikes and lockouts are forever important effects. The builders say barred. The men have obtained an that the water vapor prevents the deincrease from 371/2 to 40 cents an hour composition of the petroleum to an in wages and a guarantee that only extent, enabling the engine to run union men shall be employed, while long periods with crude oils without the employers have gained the ad- leaving an excess of deposit on the vantage of immunity from all labor vaporizer's walls. It is not easy to understand why water should prevent decomposition of the petroleum. The engine works on the four stroke cycle Front View of Concrete Poultry and uses the heavy black petroleum cils and the semi-refined or intermediates, as well as the ordinary refined lamp oil. There is a cylinder fourteen inches in diameter, giving forty-seven brake horse power with horse power with crude oils. On the suction stroke of the piston air is drawn into the cylinder through the main air valve, and oil is pumped through the oil sprayer into the vaporizer, which receives a further supply of air through a shifting valve. At the same time water is pumped through the water sprayer and enters the vaporizer. This charge is then compressed, and, as the crank of the engine passes the inner dead center, is ignited by the hot igniting tube, giving the working stroke. The exhaust valve then opens to allow the burnt charge to escape, completing the cycle of operations. The ignitions are continuous on all loads, and the ignition tube is therefore retained at the required temperature without the aid of a lamp except when starting Steps are being taken to establish the engine. The speed of the machine is governed by varying the amount of

Automatic Rallway Signal.

Misreading of signals and failure to execute them are the most potent causes of accidents on railways and it has been the work of many inventors to lessen these dangers by introducing automatic signals, which tural Building Trades Alliance. Of The influence of the trade union is shall relieve the human mind of the nearly 13,000 votes cast hardly 4,000 for probity, temperance and cleanli responsibility as far as possible. Thus ness, both in habits and in person the block systems now show signals The arbitration board of the execu- The court records will support the as | which are supposed to prevent the rive council of the Hod Carriers and sertion that the percentage of union train next following from running Building Laborers' union of Chicago men arrested for crimes or misde into the one which has set the sighas succeeded in reducing the hours | meanors is far below the general per- nal. But these signals depend on the



Stops Engine Without Aid.

vigilance and action of the engineer, and so it may be wise to go a step further and make the block system signal be unheeded.

How this may be done is shown in depending from the engine on the small forward truck, with a cord connecting with the throttle and also with the bell and whistle. Beside the track is a long, light rail, which is elevated or depressed after the manner of the signal arms. A reverse in my garden? lever is provided for use when the engine is backing and, seemingly, there is little chance now for a train to run past the block set against it.

C. Fisher of Delphos, Iowa.

Electric Launches in Venice.

Naples, Reggio, Calabria, and Messina. | ging them out. The authorities of the province of Rome propose to build an electric railway between the city of Rome and Civite Castellana. The city council of Venice has decided to purchase a number of electric launches for use another is going the same way. on the canals of that city. The general inspector of the Adriatic railroad. whose office is in Rome, has received permission to purchase 150 electric accumulators. The Adriatic Railroad company is planning to build an electric road from Chisso to Como and Chiavenna.

' A Pocket Umbrella.

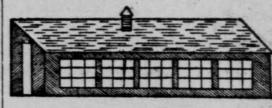
An umbrella small enough to go insions in times of peace, is incompe- is designed on the principle of the telescopic slides, a carrying case and a The London Board of Trade, piece of silk covering. On opening the through its Bureau of Labor, has just case in which it is contained the conissued its eleventh annual report | tents resemble a bundle of steel rods showing changes in the rates of in a wrapping of silk. These are with wages and hours of labor throughout a little manipulation, converted into to do. How. By feeding a well-balthe United Kingdom in 1903 and the an umbrella of the orthodox shape. first six months of 1904. The report the short handle of which draws out gineering, shipbuilding and glass as stout, tight and rain-resisting as

> Radium Argentiferum. Particulars are out regarding the new metal discovered by the Tuscan engineers, Travaglini and Fabiani, The discoverers have given the new metal the name radium argentiferum. The metal is composed of copper, iron and infinitesimal portions of silver. radium and phosphorus. The chief secret, it is said, lies in the phosphorus. It is claimed by the patentees that radium argentiferum is stronger than ing. steel, does not oxidize, is a better conductor than copper, and can be manufact din large quantities at one ly used in making cannon, munitions. etc., and that it will supersede copper in electric wires.

FOR CHICKENS IN WINTER. Well-Built Concrete House That Will Defy the Cold.

F. V. G .- I would like to learn how to proceed to build a concrete house for little chickens in winter. I usually keep about 200 chicks on hand, seilruitful development of the internal ing them at about three months old. union's trustees. Mr. Woodward has combustion motor and its adaptation I have no place to keep them in winter. Please show how to build a suitable house of concrete and give an estimate of the probable cost.

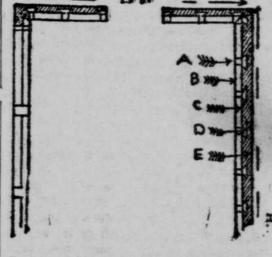
The chicken house represented in the accompanying cut is 12x24 feet: it is 5 feet high on the south side and 8 feet high on the north side. It is built of concrete, the walls being six inches thick, with 2-inch strapping and is lathed and plastered. Port



land cement being used instead of lime in the plaster. By using Portland cement in the plaster the chickens will not pick the plaster off. The floor is of concrete and a wooden floor is laid on top of it. This will keep the rats from getting under the floor or troubling the chickens in any

The cost of the concrete work would be 10 barrels of Portland cement. making the concrete one of cement to nine of gravel, 9 days' labor for one man and 12 yards gravel. The other material and labor would amount to about \$14 for lath and plastering and \$27 for windows, door, roof and labor. The inside can be sheathed up with matched stuff if desired instead of being lathed and plastered, but the walls can be more easily kept free from vermin if plastered. In order to get the sunlight into the chicken house, the windows should not be more than one foot from the floor, if higher than that the rays of the sun will not strike the floor as it should. The walls are built between planks.

This is done by standing 2x4 inch uprights every three or four feet, both



Section of Ground Plan Showing Construction of Wall.

A.2 by 2 in, strapping; B, lath and plaster; C, 2 in. hollow space; D, wood, brick; E, concrete wail.

on the out and inside of wall, and opposite each other, leaving twelve inches between the outside and inside uprights. A 2x12 inch plank is now placed on edge both on inside and outside of wall with an inch wedge between the planks and upnot only set a signal against a train | rights. By using a small spread stick following on the same track, but also six inches long between the planks operate a mechanism to bring the sec- it will keep them in their place. In ond train to a standstill should the raising the planks loosen the wedges and raise the planks allowing them to lap down on the concrete 11-2 or 2 the illustration. There is a lever inches, drive in the wedges and proceed as before.

Poplar Shoots.

S. W. M.-How may the roots of poplar trees in a neighboring garden be prevented from throwing up shoots

The poplar shoots which come up in the yard may be prevented by sinking a strip of galvanized iron along the The inventor of this system is Orr edge of the garden. The roots from which the shoots spring are usually within a few inches of the surface and a strip of galvanized iron one foot wide The Italian ministry of posts and should suffice. If this is not found telegraphs has received authority in practicable, the roots should be preparliament to establish telephone con- vented from entering the garden by nections between Brescia and Ber- means of a ditch, or in some other gamo, Lecco and Bergamo, Cremona | way. Once the roots are prevented and Pisenza, Genoa, Pisa and Leg- from entering the garden the shoots horn, Naples, Foggia, and Barletta, may be gradually eradicated by dig-

Jaundice.

S. B.-What is the cause of a her turning yellow in the head? We lost one from this cause this summer and

This is undoubtedly a case of jaun dice, which is a form of liver derange ment brought on by improper feeding of unsuitable food in too great quanti ty. It would much simplify matters if you had stated the age of and kind of fowls you have, on what was fee and in what quantities. Very often such complaints are the result of the feeding of too much soft food in the shape of mash. As a result the gizzard is not exercised enough, and disease follows. The mash should be varied from time to time and not fee too frequently or in too great quanti ty. A healthy gizzard means a healthy bird, and no bird can be in proper health without its gizzard getting work anced ration.

Spelt for Stock Food.

S.-1. Is spelt a good food horses, cattle and swine? 2. What time of year is it planted and flow is the ground prepared?

1. Spelt compares favorably with wheat, oats and barley as a food for stock of all classes. It has a clinging husk, similar to barley, and an internal grain of much the same nature as wheat. As a stock food it would probably be as valuable as a mixture of wheat and barley, or wheat and oats. Spelt is a comparatively hard grain and should be ground for feed-

2. Spelt requires about the same method of cultivation as other cereals as wheat, oats or barley, and it should tenth of the cost of bronze. There- be sown at about the same dates in fore they expect that it will be large spring. From 80 to 100 pounds of seed should be sown to the acre. It will thrive on light soils and withstand drought well.