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No. 35.

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The important lions of sprouting weed seeds, writes are ground is manufactured espectively. The important lions of sprouting weed seeds, writes and Double Barrel Breach Loading Guns.

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### Insurance. The GOGGIN HARDWARE STORE, CHATHAM.

How the British Admiralty Experiments With New Models. Lords of the Admiralty a scheme miralty. that was then adopted, and has been

on experiments with models of war- The models have speed indicators af- forethought shall have ready prepar- sequences. My life is forfeit in any speak. The spots are rifts through time has long since passed into obvessels—an apparatus that has, since fixed, and are regularly put through ed for us. You will recollect that case, and I place no value upon it. the photosphere, coming and going livion when it is necessary to repel will produce the same result. that date, been considerably elabor- their paces. ated, with the result that there is An ingenious arrangement, first now in existence a miniature sea, discovered by Mr. Froude, consisted where the naval engineers may play of a small paper-covered cylinder,

The models are made of paraffin trip" the "ironclad" came up to exwax, and the usual length is about pectations as regards the way in twelve feet, a size found by experi- which she moved. ments to coincide best of all with It is interesting to learn that prithe "genuine article" of so many vate ship-building firms, besides the

The models are cast in moulds, perimental purposes. and then finished by hand with the aid of certain elaborate tools. The

numberless defects when "launched. | courage and devotion. Either her resistance to the water wardly, or she may be found incap- than the height of the living man. which would summon them to wit- uables.

NAVAL BATTLES IN A TANK. able of being moved at any high rate of speed. The Admiralty are naturally very chary about supplying information

It would not do for foreign govern- all. What yer say, eh?" Some years ago a Mr. William ments to be allowed access to the Numerous experiments are carried

at mimic warfare, practising with upon which a pen operated, marking bomb is an awkward bit of goods to stone. The conviction that here inthe models that are continually be- a line that indicated the speed of the ing evolved as one type of battle- model when being towed through fashion? Might go off sudden- James Cooney, was absolute. Had ship displaces another. The Italian the water by the railway engine al-Government has also a tank on the ready mentioned. Thus it could be easily ascertained if in her "trial

Admiralty have their tanks for ex-

tank is about 300 feet long and 10 | Some years ago the Duchess of feet deep, with a breadth of over 30 Connaught was seriously ill-so ill surface of the "sea" is a kind of and one nurse (the wife of a clergydiminutive railway on which a man) were allowed in her room.

The Don's Last Coup.

in the uttermost extremity of fortune he managed to retain a fair PROPRIETOR semblance of that spick-and-span exterior which bespeaks your true egotist. He was a brainy man, for all he had at one time been a valet. His brains, indeed, had proved his ruin, level of the cracksman.

Things were at a somewhat awkward pass at the time, and as his pals shuffled out "hands" from a reading a paper, seemingly quite oblivious of his surroundings. Then he slit a small rectangular hole in the newspaper, and holding up to the

two occupants of the room. "Listen to this, boys: it has given me an idea which may or may not prove a bonanza: 'A Murderer's James Cooney, who was lying under sentence of death at Barneville Gaol, effected his escape this morning with

remember it in when I first joined you may escape after all." the profesh. What's yer lay, any-

"To crack that crib in a distinctly new and original style, and give you your revenge at the same time. This is how I propose to do it. On the pleasant, I hope?" count is giving a ball to celebrate nightmare than a dream, and was so spectacle might have been witnessed can be substituted. Another imporhis son's return from South Africa with the V. C. The affair will be the society papers say, and in all convinced some misfortune shall fol- was one long and uninterrupted de- is sticky. Dust falling upon this probability every jewel in the country worth looking at will lend its sparkle to the general brilliancy. We've got to annex those jewels." "Huh," said Steve, while the other man, "Welsher," was content to mutter hoarsely an encouraging

"The opportunity will arise when the party are assembled in the Blue-The servants will be there, too. The Lutingdene. For instance, that es- proaching death writ large on the and there is no lost motion anyconsequence will be that every living soul in the mansion will be gathered together in one room at the hour we select for operations. Now, there the side and one behind the stage, and at the appointed time your station shall be at one, Steve, and yours, Welsher, at the other, both of give the signal from the stage." "From the stige, Don?" echoed

Steve. "Yer a-gwine to tike part in the play-actin'?" "My performance will be a solo. and will, I expect, prove so absorbingly interesting that a rich harvest the escape of this criminal?" of jewels shall reward my efforts. After my 'turn' has concluded the open to permit of my exit with the late?' spoil, when it will immediately be much celerity as may be."

Don, and rip me if this is any time I hope your fears won't prevent you veral years afterwards. fer fairy tales. What yer mean to accompanying a few of us for a run | Steve was with difficulty extracted "Hol' on Welsher," said Steve

nertize 'em so as they all go to Something must be wrong."

is exemplified by a dynamite bomb "What is the matter, Woodward?" on the point of explosion." There was a slight pause, in order him. that this utterance might have due comprehension, and then The Don count. "What do you mean? Why daringly to obtain possession of apart so as to work them with a ESSENTIALS OF POTATO CUL-

accorded to me if only on account of never wrote it. Halloa! the strangeness of my appearance, The exclamation was caused by the which will be an exact facsimile of sudden rising of the drop curtain, possibilities and combating its diffi- with close-crouped hair and repulculties with a wealth of ingenuity sive features. His ragged clothes,

inquired Steve, slowly. I was a valet once, you know."

"Fact. Viscount Woodward. I him to exercise. know every nook and corner of Lut-

Tikin the jools may be all right, but harsh voice:-

Steve, doubtfully, "that a dynamite which everyone sat as if turned to earnest."

bomb to explode will never be in- the men, rendered furious in consevented." lighted query. guessed it. Undoubtedly the game rang with the deadly earnestness of Chinese there will be no need to cessful farming.

Lutingdene was thronged with mesmeric stupor.

been found in a similar condition, pursued as soon as he had discarded and inside the coach-house it would his hideous plaything, and his cap- by horses or sheep is fatal to timhave been seen that the Viscount's ture was certain. Indeed, it was automobile was in a singular state hard to see how he could possibly

lows. All the theatrical surround- tors but to beat a rapid retreat.

pray. It is a pet theory of mine." sion of deep import disturbed your turned in the lock. rest last night. Not anything un-

Trillington. You must really un- the eccentricities of the primitive derstand that the thing is absurd. If roadway and reeling horribly in the bar, this trouble will be reduced to

caped murderer, James Cooney, who faces of all. and put an end to our anxiety?"

drive about as much lately as here- grave.

when it is serviceable again."

to is the sort of moral suasion that of the stage, dressed in character.

don't you begin?" "It shall be necessary that I have Why, there is a slip of paper pin- Bits. he stage temporarily to myself, and ned up there requesting us to go be-

With great lucidity he continued to in the centre of the stage, a man of

When the curtain had folded back, tremely slight.

The alternative is death."

be experimentin' with in that kinder deed was the escaped murderer, like and bring down the house in the man shrieked out his words and "Steve," said The Don with solem- in their faces, very probably some of nity, "the light that will cause that the ladies would have fainted, and quence, might have precipitated mat-"What! Spoof 'em?" was the de- ters in a very unpleasant manner for The Don. As it was, his cool de-"Marvellous intuition. You've meanor and low, stern tone, which a desperate man, merely stunned the travel to China to do it. A Chinese

taining the jewels. The Don's su-In the shadow of the coach-house perb acting so wrought on the wall three motionless figures, one of nerves of the ladies that they flung them carrying a peculiar shaped par- their costly treasures almost with cel, stealthily made their way to- relief into the bag, and the men, with the consequences of resistance Had anyone gone down to the so surely before their mind, showed coach-house afterwards he might little desire to prevent them. That have observed that the lock had the man was utterly reckless and been skilfully picked, leaving the desperate was the uppermost thought door ready to be opened at a mo- in the minds of all, and in comparment's notice. Pursuing the inves- ison with human lives jewels were tigation, the back gate would have cheap. Furthermore he would be

sidering the hour, and rapidly gener- Driven by his own overmastering ating the force necessary for speedy fear, the trembling collector rapidly Some twenty minutes later the meanwhile swelling visibly as its vile pack of cards and scooped their guests were all seated in the Blue- costly contents became augmented, tricks by the light of a reeking, evil- room, facing a miniature stage beau- till finally with difficulty the patent smelling lamp, they threw many an- tifully draped, and soon to be trod self-locking jaws clicked together. xious glances at The Don. He was by the clever amateurs who had gra- The coup was completed, and nothciously consented to amuse their fel- ing now remained for the conspira-

light the printed scrap of paper that convert for the nonce the handsome With the pride of genius he could not had filled it, he addressed the other chamber into a veritable theatre, resist that triumphant pause, that and the delighted acclamations of his exultant look of victory at his conguests rewarded the Viscount for his quered enemy. Society, now so helpefforts towards their amusement. As less despite its elaborate protections the orchestra concluded a brilliant and far-reaching power. But the Escape.—The Balfe Hill murderer, Lady Trillington, tapped him with With the yielding up of their possessions everybody seemed to breathe "Do you believe in dreams, Vis- more freely, as if the danger had lessened and it was time to think of "Viscount Woodward's place? I dreams, that is if the lobsters are did so. Then with his face to the "Don't treat the matter as a jest, time had mysteriously swung open. fect condition by using a sharp When he had passed through it clos- sickle—the most important item to "From which I infer that some vi- ed with a bang, and the key was be looked after. No machine can do

> wivid that I have not shaken off the on the bleak country road between tant item is to keep the sickle bar of the on the bleak country road between tant item is to keep the sickle bar of the bleak country road between tant item is to keep the sickle bar of the bleak country road between tant item is to keep the sickle bar of the bleak country road between tant item is to keep the sickle bar of the bleak country road between tant item is to keep the sickle bar of the bleak country road between tant item is to keep the sickle bar of the bleak country road between tant item is to keep the sickle bar of the bleak country road between tant item is to keep the sickle bar of the bleak country road between tant item is to keep the sickle bar of the bleak country road between tant item is to keep the sickle bar of the bleak country road between tant item is to keep the sickle bar of the bleak country road between tant item is to keep the sickle bar of the bleak country road between tant item is to keep the sickle bar of the bleak country road between the bleak country road between tant item is to keep the sickle bar of the bleak country road between the bleak country r effects of it yet. It foretold a ca- Lutingdene and Trillick, the railway free from gum and dirt. The juice lamity if ever a dream did, and I am station of the district. The road from the cut ends of the grass plants scent, in part perilously steep, and tends to form a gummy substance, "Your dream could have no better a huge automobile was flying along which must be removed at frequent ally than your own faith in it, Lady it at a whirlwind pace, jolting over intervals. By keeping the machine we were to live in constant dread of clutch of ruts and depressions. Inthe unknown existence would be in- side the car were three terror-strick- be oiled every few hours or so and en, wild-eyed men, one of them vain-"It is not the unknown I fear. ly tugging at a useless brake with There are plenty of very real dangers the monotonous persistency of dealways around us, even in charming spair, and the horror of swift ap-

is supposed to be in hiding here- The moments passed, the huge veabouts. Our very lives are not safe hicle gathering momentum with while he is at large. Why don't the every rood traversed. And then are two doors in this room, one at police do something to capture him Fate appeared in the shape of the massive white gate of a railway "Well, I grant you they have al- crossing. The motor hurled itself lowed our confidence in them to be into the obstruction with the force shaken somewhat. But we must not of a score of battering rams. There ger of injuring the sickle, but in you ready at a given signal to lock expect too much. Few of us have was a horrible rending noise of those doors from the outside. I will any comprehension of the manifold splintering timber, the hissing of esdifficulties the police encounter in caping steam, a sharp cry of agony their work. By the bye, Lady Tril- intermingled with a long, shuddering are frequently an inch or more in lington, I notice that you do not moan, and then the silence of the

tofore. I trust your penchant for When the catastrophe was discoverthe open air has not suffered through ed (which was soon-afterwards, owing to the clue furnished by the mis-"I fear it has. I must retaliate, sing motor) one of the occupants of dows, formerly cultivated fields, however, with a similar query. What the car was found unconscious in a door at the back of the stage shall have you done with your motor of field some distance away, having been shot from the car like a can-"It is out of order I am sorry to non ball at the moment of collision. relocked, and we depart with as say. The brake refuses to work, and It proved to be Welsher. His superother matters prevented me having ficial injuries were practically nil, Welsher looked at the speaker an- it repaired up to the present. To- and he lived to taste the hospitali- years and remain in almost perfect grily. "There's a time fer all things, morrow I shall have it looked after. ties of a Government retreat for se-

from the ruins of the motor, and "Oh, no, I shall be charmed. But presented a pitiable spectacle of with a grin. "I know what The here are our budding actors all com- sprains, fractures and abrasions. Don's up to. He's a-gwine to hyp- ing down to us. What does it mean? | Many weeks, therefore, were spent in the local infirmary before he was en- greater profit on the labor bestowed growth of root crops, such as tur-The Viscount looked up in sur- abled to join Welsher in his seclu- upon it than any other portion of nips, beets, carrots, potatoes and "Hypnotize them?" repeated the prise as the players in the piece sion. The Don was beyond the the farm, even when managed by the parsnips, than upon others. The Don. "No, Steve, the force I advert trooped into the room from one side reach of mundane justice. He was old-fashioned method of small plats best test as to profit in subsoiling discovered at the bottom of the rail- and beds and hand cultivation. This is to try it upon an acre and note way gate, lifeless, concussion of the being the case, it can surely be made carefully the yield and result as com-

abruptly but painlessly.

ABOUT THE SUN.

Its Substance. expound his scheme, weighing its middle age, unshaven and uncouth, dozen can be estimated that way. every morning during the early part can reach without literally tearing Suppose the sun is here, in space, of the season, and although this may up the plant. Do not be afraid to on January 1, On July 1 he will be be carrying it to an extreme, we are expose or even break off some of the worthy of a better cause. When he stamped with that hall-mark of in- 184,000,000 miles over there. This is convinced that a more frequent cul- small lateral rootlets while the had finished there was silence, and famy, the broad arrow, enhanced his the base of measurement. The obsertwo deep-drawn breaths were simul- sinister exterior. He held in one ver who wants to estimate the dis- might prove profitable. The fre- air to soil and roots where most hand a round, black, ominous-look- tance of, say, the star A Centauri, quent breaking of the crust admits needed and tend to send the large "What about gee-ography, Don?" ing object, and in the other a lighted notes its position with regard to the of a freer circulation of the air to roots deeper down to the moisture. taper. At his feet was an open next star, In six months he notes the roots, and aids them to make Should the growth of the plant in-"Shall we say topography?" cor- brown leather bag. It was our again, and if they are separated by the most of all the dews and rains dicate a marked deficiency of active rected The Don, smilingly. "There friend The Don, dressed with as a different distance, a so-called par- which fall. Next to actual irriga- food at an early stage I have found is no need for anxiety on that score. much faithfulness to the published allax is established and some calcultion frequent and continual surface it decidedly advantageous to apply description of the escaped murderer ation can be made of the distance of cultivation aids in securing and re- some soluble and quickly available "What! Yer boss was--no, garn." as his experience as a valet enabled the nearest one. In the most fav- taining moisture, and supplying it manure alongside the row and culorable cases this parallax is ex- to the growing plants.

which it did automatically, he took | What is the sun made of? The "What about gettin' away, Don? a step to the front and said, in a lines of the spectrum give an idea of his chemical properties, but beyond tikin our hook's the chief thing after "Silence. Let no one move, on the that all is hypothesis. His substance

A CHINESE COLLEGE FOR LON-

senses of his hearers into a kind of college is to be established in London: and, though the college is not

HOW TO OPERATE THE MOWER In cutting timothy for hav. the sickle bar should be two or three inches above the base of the plants. Clover and other meadow plants may be cut closer. After the hay has been harvested, close pasturing othy meadows. As a rule it is not desirable to turn stock in at any time. If pasturing the aftermath is practiced, however, it should be done very late in the season and the animals allowed to remain on only a

To facilitate hay harvest, the mea-

dow should be in as large fields as

possible with no division fences. This will make it possible to go around large lands when cutting. ings and accessories which the wand The Don glanced down at the bag be avoided and time saved. If the Much turning with the mower will of wealth could summon served to at his feet and then round the room. horses are good walkers, about ten acres a day can be cut with the ordinary five-foot mower. Of course ground, the condition of the hay time. crop, the kind of team used, etc. Where everything is favorable, it is easily possible to cut a larger acreacre per hour is about the average. is believed to be hiding in the neighborhood of Lutingdene. You know Lutingdene, Steve?"

"My dear Lady Trillington, I confess I have never asked myself the question. Stay, I do believe in ping the floor with his boot as he dreams, that is if the lebsters are dreams, that is if the lebsters are oughter, Don. Got six months to strong enough. If they're not, why, watching crowd he backed slowly to- course, some skill and experience are wards the door, which in the mean- required. Keep the machine in per-

good work with a dull sickle. It is best to have two sickles on hand. "Indeed, yes. It was more a Half an hour afterwards a strange If one gets out of order the second well oiled, particularly the sickle the minimum. The pitman rod must also the other bearings where friction is greatest. Go over the machine at least twice

a day and see that every nut is tight gin to wear, take to the factory and have them overhauled. It is a good idea to have a blacksmith or a machinist go over the mower each season before taking to the field. Where the meadow is free from weeds or brush, there is little danmany fields, particularly those recently seeded, immense weeds with

thickness and almost as hard as hazelbrush. Before cutting the hay, these should be removed, or they will certainly injure the machine. Then, too, along the hedge in meathere are frequently sprouts from the WE PRINThedge plant. These, of course, are very hard and must be taken out before the grass is cut. With the precaution referred to, a modern mower will last for a dozen or more condition. Of course, it is taken for all amost letters and remain in almost perfect granted that the machine is kept in a dry shed when not in use.

THE FAMILY GARDEN.

inquired one of the men approaching brain having cut short his career to pay a much greater ratio of profit pared with a given area not subby planning to plant every thing soiled. "The matter?" echoed the Vis- The jewels which he had plotted so possible in long rows far enough were recovered intact.-London Tit- horse and cultivator, thus greatly relieving your own muscles. And the saving in cost of cultivation is

SCIENCE IN FARMING. peril of his life and the lives of as a whole, is of much lighter ma- nies the value of science in agricul-"That, Welsher, is, I fancy, my every soul in this building. I have terial than the earth, but yet there ture. Not long since in the legisla-Froude brought to the notice of the designing rooms of the British Ad- trump card. For the purpose of put- in this hand (holding up the round may be a hard and heavy fiery pud- ture of a rich agricultural state a ting as much real estate as possible object) a deadly explosive, and the ding inside, for there is a light and member in opposing a bill which calbetween our precious selves and Lut- moment this taper touches it we thick outer coating named the phot- led for an appropriation for educaon in the Government tanks with ingdene after effecting the coup, we shall all be hurled to destruction. If osphere. Outside this, again, refining tional purposes, stated that the best A large tank was constructed, fit- models of submarine and torpedo will take temporary possession of anyone moves I shall apply the hoats of well as the Viscount's motels are really as the Viscount's motels are really as the last dressing not ted with an apparatus for carrying boats as well as the larger craft. The chromosphere, of hot air, so to know how to read and write. The chromosphere chromosphe the engineering of a motor repre- I wish to offer you certain terms for and some are so large that our the assaults upon scientific agriculsents a small component part of my your safety which you must accept. whole earth could be shot right ture. While occasionally a man enthrough with a thousand miles to tirely ignorant of science may be a "Don't you think, Don," said There was a short pause, during spare all round. When a total ec- good farmer, no one can attain the between rows at the last cultivation, lipse covers the sun, flames to the highest success unless he under- serving to drain the surplus water height of thousands of miles are stands the principles which underlie from the row, to hold it in reserve, seen out of the photosphere. The sun agriculture. He must know some- and to prevent rotting during a posis 100 times larger than the earth, an thing of soils and fertilizers, plant sible wet period after maturity. easy thing to say, and yet our sun and animal growth, nitrogen's place is believed to be a rather small one. in agriculture, the nature of the flourished his argument, so to speak, For instance, Sirius is at least nine changes which take place in milk, An extraordinary experience fell to butter and cheese, etc. During the the lot of a through train to Perth, last 20 years it has been demon- which left Albany, West Australia. strated over and over again that a When travelling up an incline about thorough understanding of these 180 miles from Albany, between Wageneral principles and their practical gin and Beverley, the wheels of the In future if you want to learn application are great factors in suc- engine failed to grip the line, not-

SUBSOILING.

against summer drouth. The effects ual result.

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ON WOOD, LINEN, COTTON, OR PAPER WITH EQUAL FACILITY. #Tooms and see our Work and

compare it with that of

CHATHAM, NEW BRUNSWICK. of subsoiling last from two to three The family garden usually pays a years and are more marked on the

TURE. After planting do not wait for the only a small part of the benefit of weeds to start before cultivating the long row arrangement. It will but begin with the weeder and spike naturally lead to a much more fre- tooth harrow, both length and our garden crops. The important lions of sprouting weed seeds, writes advantage of a frequent stirring of Mr. R. M. Winan. When the plant The sun is about 92,000,000 miles the surface soil among all our grow- appears go into the field with the off. The only way of measuring the ing crops, we are convinced, is too horse hoe or the riding cultivator distance of a fixed star is by paral- often greatly underestimated. It is and continue to dig up and turn over lax, and scarcely more than half a said that it pays to hoe cabbage to the sun and air all the earth you

tivate deeply into the soil. Almost tato manures are readily soluble in quick, healthy start that will tide from 75 to 100 lbs. each per acre.

withstanding the customary applica-

ltion of sand, and the train was brought to a standstill. An investigation then revealed the fact that feet. Twenty inches or so above the that only her husband, the doctor, guests and the revel was at its "I must have the jewels of every yet built, some of the professors Subsoiling, which consists in stir- the metals for hundreds of yards height. The magnificent ball-room lady in the room. The gentlemen I have already arrived and have start- ring the soil below the depth usually were covered by millions upon milwas a glittering panorama of whirl- will excuse, as their valuables are ed work. The professors wear their plowed, acts differently in different lions of black ants. The tiny insmall engine is placed, by means of During that time of fearful anxiety ing forms rhythmically obeying the too bulky for my purpose. You, sir, ordinary Oriental garments when soils and different seasons. It makes sects were evidently taking advanwhich the models are towed through and suspense the Duke, who was as strains of a popular waltz played by will collect the articles. Take this taking classes, and many pupils es more room for development and tage of the smooth passage offered tender as a woman to the Royal pa- a celebrated band. On the terrace bag. Quickly. Time is precious." have joined—Army men, engineers, enables the plant to extract food by the rails in an extensive trek in A model that may, in outward ap- tient, with his own hands dusted and scattered groups of men smoked in The youth he addressed, extending city clerks, and budding diploma- and moisture from a greater area. search of fresh fields and pastures pearance, be a masterpiece of sym- even swept the sick room, and sat silent communion; the garden walks towards him the hand holding the tists. Of course, there have long By loosening up more of the soil its new. The wheels of the engine metry, will often be found to have up night after night with unflagging were paraded by mysterious whisper- lighted taper, rose hurriedly with been Chinese professors at Oxford capacity for absorbing and retaining crushed the ants, and thus creased ing couples. Only the yard and sta- ashen cheeks, and seizing the bag ly- and Cambridge, but this is the first moisture is increased. By absorb- the rails so that no purchase could bles were deserted, for the servants ing on the stage in a trembling venture of the kind where the teach- ing greater amounts of moisture in be obtained. The sand put out from is too great, or she may ride awk- The skeleton measures one inch less were waiting eagerly for the signal grasp he began to collect the val- ers are all natives of the Celestial winter and spring, provision is made the engine failed to produce the us-