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Cutting Grass Early.

she can not talk she has many times

put herself on record to that effect

at the mailk pail and the churn, and

it is because the owner fails to see

and understand these records that he

Haying on Soft Meadows.

ands of acres producing fairly good

cow hay, but on which teams cannot

out," or carrying the hay in large

cocks on a pair of poles, to the

edge of the upland, where it is to be

loaded. To avoid this drudgery some

farms use mud shoes for their horses,

as illustrated. The shoes are of oak, 1

inch thick and 8x10 inches for a horse

of average weight. Edges are beveled

and planed, and ends are strongly.

cleated on the under side. Holes are

made to fit the projections of the iron

shoe and an iron strap, which a black-

smith will make from the illustration

for a few cents, passes across the hoof

and is fastened by nuts on the lower

cannot be driven without

danger of becoming

mired. The work is

therefore all done by

hand, including the

dreaded task of "poling

Along sluggish streams are thous-

an Canta da A STUDY IN SCARLET BY A. CONAN DOYLE.

## 

CHAPTER VI-Continued. "Where is he now?' I asked. "'He is upstairs in bed. He wished After a very brief pause the detecto be called at nine."

CORVALIS

tice continued: "It seemed to me that my sudden "Of course, after that there was nothing more to be done. I found out appearance might shake his nerves where Lieutenant Charpentier was, and lead him to say something untook two officers with me and arrested guarded. The Boots volunteered to hím. When I touched him on the show me the room; it was on the secshoulder and warned him to come ond floor, and there was a small corquietly with us, he answered us as ridor leading up to it. The Boots hold as brass: 'I suppose you are pointed out the door to me, and was arresting me for being concerned in about to go down stairs again, when I the death of that scoundrel Drebber,' saw something that made me feel sickhe said. We had said nothing to him ish, in spite of my twenty years' exabout it, so that his alluding to it had perience. From under the door there a most suspicious aspect." curled a little red ribbon of blood,

'Very," said Holmes. which had meandered across the pas-"He still carried the heavy stick sage and formed a little pool along which the mother described him as the skirfing at the other side. I gave having with him when he followed a cry which brought the Boots back. Drebber. It was a stout oak cudgel." He nearly fainted when he saw it. "What is your theory, then?" The door was locked on the inside, but

"Well, my theory is that he followed we put our shoulders to it and knocked Drebber as far as the Brixton road. it in. The window of the room was When there a fresh altercation arose open, and beside the window, all hudbetween them, in the course of which died up, lay the body of a man in his Drebber received a blow from the night-dress. He was quite dead, and stick in the pit of the stomach, per- had been for some time, for his limbs haps, which killed him without leav- were rigid and cold. When we turned ing any mark. The night was so wet him over the Boots recognized him at that no one was about, so Charpentier once as being the same gentleman dragged the body of his victim into who had engaged the room under the the empty house. As to the candle name of James Stangerson. The cause and the blood and the writing on the of death was a deep stab in the left wall and the ring, they may all be so side, which must have penetrated the many tricks to throw the police on to heart. And now comes the strangest the wrong scent." part of the affair. What do you suppose was above the murdered man?"

"Well done!" said Holmes in an encouraging voice. "Really, Gregson, you are getting along. We shall make something of you yet."

fore Sherlock Holmes answered. "I flatter myself that I have man aged it rather neatly," the detective ters of blood," he said, answered proudly. "The young man volunteered a statement in which he awstruck voice: and we were all said that after following Drebber silent for a while. some time, the latter perceived him There was something so methodical and took a cab in order to get away and so incomprehensible about the from him. On his way home he met deeds of this unknown assassin, that an old shipmate and took a long-walk it imparted a fresh ghastliness to his with him. On being asked where this crimes. old shipmate lived, he was unable to My nerves, which were steady give any satisfactory reply. I think enough on the field of battle, tingled as

the whole case fits together uncommonly well. What amuses me is to think of Lestrade, who had started off upon the wrong scent. I am afraid he won't make much of it. Why, by Jove! here's the very man himself!'

It was, indeed, Lestrade, who hall at the back of the hotel. He noticed ascended the stairs while we were that a ladder, which usually lay there, talking, and who now entered the The assurance and jauntiness of the second floor, which was wide room. which generally marked his demeanor open. After passing, he looked back and dress were, however wanting. His face was disturbed and troubled, while his clothes were disar- the boy imagined him to be some carranged and untidy.

He had evidently come with the in- He took no particular notice of him, tention of consulting with Sherlock beyond thinking in his own mind that Holmes, for on perceiving his col- it was early for him to be at work. He league he appeared to be embarrassed has an impression that the man was

two," said Holmes, and drawing his penknife, he suited the action to the "One half we return into the word. box for future purposes. The other half I will place in this wine glass, in which is a teaspoonful of water. You perceive that our friend, the doctor, is right, and that it readily dissolves." "This may be very interesting," said Lestrade, in the injured tone of one

1 mar 1 -

who suspects that he is being laughed at. "I can not see, however, what it has to do with the death of Mr. Joseph Stangerson."

"Patience, my friend, patience. You will find in time that is has everything to do with it. I shall now add a little milk to make the mixture palatable. and on presenting it to the dog you will find that he laps it up readily enough." As he spoke he turned the contents of the wine glass into a saucer and Kept all the neighbors' dogs afeared

placed it in front of the terrior, who speedily licked it dry. Sherlock Holmes' earnest demeanor had so far convinced us that we all sat in silence, watching the animal intent-

ly and expecting some startling effect. None such appeared, however. The dog continued to lie stretched upon the cushion, breathing in a labored way, but apparently neither the better nor the worse for its draught.

Holmes had taken out his watch, and as minute followed minute without result, an expression of the utmost cha-

grin and disappointment appeared upon his features. He gnawed his lip, drummed his fin-

gers upon the table and showed every other symptom of acute impatience. sincerely sorry for him, while the two detectives smiled derisively, by no means displeased at this check which he had met.

"It can't be coincidence," he cried at last, springing from his chair and pacing wildly up and down the room: "it is impossible that is should be a coincidence. The very pills mere which I suspected in the case of Drubber are actually found after the death of Stangerson. And yet they are inert What can it mean? Surely my whole chain or reasoning cannot have been false. It is impossible! And yet this wretched dog is none the worse. Ah I have it. I have it!

With a perfect shrick of delight he rushed to the box, cut the other pill in two. dissolved it, added milk, and presented it to the terrier. The unfortunate creature's tongue

hardly seemed to have been moistened in it before it gave a convulsive shiver in every limb, and lay as rigid and lifeless as if it had been struck by lightning. Sherlock Holmes drew a long breath

and wiped the perspiration from his forehead. "I should have more faith." he said: "I ought to know by this time that when a fact appears to be opposed to a long train of deductions it invariably

proves to be capable of bearing some other interpretation. Of the two pills in that box one was the most deadly polson and the other was entirely harmless. I ought to have known that before ever i saw the box at all."

This last statement appeared to me to be so startling that I could hardly ove that he was in his sober sense There was the dead dog, however, to prove that his conjecture had been correct.



SEMI-WEEKLY.

His Stepma. I knowed a little codger once As onery as could be; He'd chaw and swear, run off from school. And pester beast and tree: And half their winders broke; There couldn't for that Tommy Tuff One praisin' word be spoke.

But by and by-his ma was dead-His pa met Widder Green And courted her; she parleyed som 'Cause Tommy was so mean. But last she said she'd give consent If neighbors, friends, and kin-Would promise to let meddlin' out While she broke Tommy in.

These mentioned, knowin' things was bad,

Saw something must be done. So all agreed to keep hands off So great was his emotion that I felt And let his stepma run But, gracious! How she used the ax And 'tater hoe and such!

> She kept that boy a choppin' wood And doin' turns and chores, And hoein' corn and garden sass And scrubbin' steps an' floors 'Till he was glad to go to school To get a little rest: Yet she was monstrous kind and good Soon as he'd done his best.

His busy hands stirred up his wits, And soon that boy at school Was leadin' all his classes; him They used to call a fool! He studied doctorin', got to be A most uncommon man, All 'cause his stepma worked the vim

That once to meanness ran.

The nerve that playin' hookey takes Might turn a whole school down, And that which breaks a winder light Might sometimes build a town, There's lots of onery\_little tykes A loafin' 'round the streets Need only work to make 'em men Instead of triffin' beats. -Denver News.

Making Figures with Carboard, .



my life. It is too pretty to use, so I am going to stick it in the front of my best dress, the way mother does hers. send you my love and a big, big thank you, and this nice round kiss. Your loving niece, Ruth." "Did I hear you read 'map'?" ex-

claimed Mrs. Seymour; and she lifted the letter for a look.

"Oh, well, course it was a handkerchief," said Ruth, cheerfully, "but I put 'map' on purpose, 'cause you said this had to be a nice letter, and I must get every word right. And I didn't know how to spell handkerchief, and I did know how to spell map, so I put Shields, of Arkansas, gives some points and been lost, and the remainder are

aunty knows what she sent me, course she does."

So Ruth's thank you letter was sent just as it was; and aunty knew what It does not matter whether it is in Ruth meant-of course she did-and the water or not, it will keep cool, and was delighted to see that her young will be ready to churn in twenty-four niece had spelled every word exactly hours. Use a thermometer and churn right .-- Youth's Companion.

## Watching for Faults.

idle as myself. One day we were fair- as quick as possible. Wrap each pound said, 'you must not be idle; you must cold water. attend closely to your books. The first will please come and tell me.'

his book I'll tell the teacher" "It was not long until I saw Joe look and hang it in the well. Paper is bettell the master.

he was idle?'

"'I saw him,' said I.

your book when you saw him?' boys again."

and try to keep it right, and always do butter take the cloths off, take them our duty, we will not have time to home, and wash and scald thoroughly. watch for faults or idleness in others. Keep two sets of cloths; while one set This will keep us out of mischief and is sunning and drying another can be make us helpful to others .- Baltimore used. We have a separator; we sell a Methodist.

The Banana Plant. The banana was named musa after Antoninus Musa, the freedman and physician of the great Augustus of the Romans, says Linnaeus. The sapientum-the wiseness-in its name is a graceful tribute to it as the "wise man's food," for, incredible as it may seem, it is perhaps the best food product of the earth, being far more productive than either wheat or potatoesthe staple food of other nations. Long ago it was calculated that it is 133 considerable experience. A saw having

In a recent Home and Farm, Maud map. But map'll be all right," declar- on the subject. She says: I say by so small and so encased in a dry coated Ruth, with confidence, "'cause all means get a separator, then buy ing or shell that not many of them milk cans large enough to hold one milking of cream, let it cool, put the lid on the can and hang it in the well. at about 64 or 67 degrees. Take up the butter, wash thoroughly by pressing "When I was a boy," said an old man, with the paddle. Don't drag the pad-"I was often very idle, and during the dle through it, as it spoils the grain. lesson used to play with other boys as Salt it, using pure salt, and mold it

Joe Simmons, whom I don't like. I'll nice, clean, new white paper in the botwatch him, and if I see him look off tom, then put in the butter. Put an-

off his book, and I went up at once to ter than cloth, as the cloth mildews. When you are ready to go to town, "'Indeed,' said he, 'how did you know use another keg just like the one in the well; put a clean towel in the bottom; put in the butter; then another "You did? And were your eyes on clean towel on top. Fasten on the lid, wet some clean sacks in a tub, fold "I was caught, and the other boys them without wringing on the bottom laughed, and I never watched for 'dle of your wagon, set the butter keg on them, and wrap wet sacks around the If we watch over our own conduct, keg and on top. As you deliver the part of the milk sweet, the rest we make buttermilk. We set it and let it clabber: then take an old-fashioned churn-dash, and churn it up and down until it is free from lumps and is smooth. Don't put any water in it! leave it thick; it sells much better.

Saw-Filing Device.

Stomach Staggers in Horses. Quite a common form of indigestion times as productive as wheat and 44 4 cutting teeth, as shown in cut at among horses is stomach staggers havtimes as productive as the potato; in a, to 1 straight drag tooth, b, with back ing the following symptoms: The ears other words, that the ground that of saw 4 gauges thinner than edge, droop forward, the eyes are dull, the would give 33 pounds of wheat or 99 will do as much work as any other. animal sweats profusely under even shows a filing frame for a crosscut the symptoms named appear the corn should be cut out of the diet and the grain ration materially reduced. Change the entire ration as much as possible and keep the bowels in good condition. Dissolve one ounce of glauber salts in the drinking water twice daily or give as a drench if the animal will not drink. If the dazed or sleepy symptoms continue give a purge of salts and afterwards drachm doses of iodide of potash three times daily until the sleepy feeling passes off. After Harvest. After the wheat is harvested the young clover grows rapidly, as its supply of plant food is increased by reason of the riddance of its wheat competitor, but many farmers allow weeds to grow, mowing them down before they produce seed. Such a plan is better than to leave the weeds to mature. but the proper course to pursue is to mow the weeds when they are young and before they have deprived the clover plants of food. By mowing them two or three times during the summer many of them will be destroyed.



Making Butter in Hot Weather.

GAZETTE.

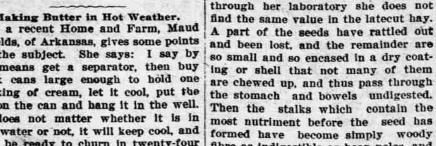
fibre as indigestible as bean poles, and she gets but little nutrition from them. We think if she could speak she would say that two-thirds or less of the amount of hay, cut early, and not sun-dried too long, was better than her usual ration of hay, ripened before cut and overdried afterward. But if

ly caught by the master. 'Boys,' he in a nice clean cloth wrung out of Get you an empty butter keg from one of you who sees another boy idle your grocery man, bore holes near the top just below the lid, take a piece "Ah!" I thought to myself, "there is of new rope and make a handle, put

does not know the facts. The scale to weigh the milk and the Babcock test for the butter fat help to tell what is other piece on top just below the lid the best food, as well as which is the best cow.-American Cultivator.

When you are ready to go to town, mix what buttermilk you have from the cream with it.

side of the mud shoe. Selecting a crosscut saw that will work rapidly and with ease requires



and put out.

He stood in the center of the room, fumbling nervously with his hat, and must have stayed in the room some uncertain what to do.

"This is a most extraordinary case," he said, at last-"a most incomprehensible affair.'

"Ah, you find it so, Mr. Lestrade?" Gregson, triumphantly. cried thought you would come to that conclusion. Have you managed to find the secretary, Mr. Joseph Stangerson?"

"The secretary, Mr. Joseph Stangerson," said Lestrade, gravely, murdered at Halliday's Private Hotel about 6 o'clock this morning."

## CHAPTER VII.

Light in the Darkness The intelligence with which Lestrade greeted us was so momentous and so unexpected that we were all three fairly dumfounded.

Greeson sprang out of his chair and upset the remainder of his whisky and water.

I stared in silence at Sherlock Holmes, whose lips were compressed and his brows drawn down over his eyes.

"Stangerson, too!" he muttered, "The plot thickens"

"It was quite thick enough before. grumbled Lestrade, taking a chair. seem to have dropped into a sort of council of war.'

"Are you-are you sure of this piece of intelligence?" stammered Gregson. "I have just come from his room. said Lestrade. "I was the first to dis cover what had occurred."

"We have been hearing Gregson's view of the matter." Holmes observed. "Would you mind letting us know what you have seen and done?"

"I have no objection." Lestrade an swered, seating himself. "I freely confess that I was of the opinion that of Drebber. This fresh development has shown me that I was completely mistaken. Full of the one idea, I set myself to find out what had become together at Euston Station about half past eight on the evening of the third. At two in the morning Drebber had been found in the Brixton Road. The question which confronted me was to ducing a small white box: "I took them find out how Stangerson had been em- and the purse and the telegram, inafterward. I telegraphed to Liverpool. giving a description of the man and pills, for I am bound to say that I do warping them to keep a watch upon the American boats. I then set to work houses in the vicinity of Euston. You those ordinary pills?" see, I argued that if Drebber and his to put up somewhere in the vicinity for light, night and then hang about the station again next morning."

"They would be likely to agree on some meeting-place beforehand," .re macked Holmes.

"So it proved. I spent the whole of I began very early, and at eight o'clock out of its pain yesterday?" I reached Halliday's Private Hotel, ir Little George street. On my inquiry living there, they an once answered me in the affirmative.

"No doubt you are the gentleman been waiting for a gentleman for two placed it upon a cushion on the rug. days.

tall, had a reddish face, and thought it was early for him to be at work. He little time after the murder, for we found blood-stained water in the basin, where he had washed his hands, and

I felt a creeping of flesh and a pre-

"The word 'Rache," written in let-

"That was it," said Lestrade, in an

"The man was seen," continued Les-

trade. "A milkboy, passing on his way

to the dairy, happened to walk down

the lane which leads from the mews

was raised against one of the windows

and saw a man descend the ladder. He

came down so quietly and openly that

penter or joiner at work in the hotel.

thought of it.

sentiment of coming horror, even be-

marks on the sheet, where he had deliberately wiped his knife." I glanced at Holmes on hearing the \*\*I

description of the murderer which tallied so exactly with his own. There was, however, no trace of exul-

tation or satisfaction upon his face. "Did you find nothing in the room which could furnish a clew to the murderer?" he asked. "Nothing. Stangerson had Drebber's

purse in his pocket, but it seems that this was usual, as he did all the paying. There was eighty-odd pounds in it, but nothing had been taken. Whatever the motives of these extraordinary crimes, robbery is certainly not one of There were no papers or memthem. oranda in the murdered man's pockets. except a single telegram, dated from Cleveland about a month ago, and containing the words, 'J. H. is in Europe.' There was no name appended to this

message. "And there was nothing else?" Holmes asked.

"Nothing of any importance. The man's novel, with which he had read himself to sleep, was lying upon the hed, and his pipe was on a chair beside him. There was a glass of water on the table, and on the window sill a

small chip ointment box containing a counle of pills." Sherlock Holmes snrang from his

chair with an exclamation of delight. "The last link." he cried, exultantly.

'My case is complete.' The two detectives stared at him in mazement.

"I have now in my hands." my companion said confidently, "all the threads which have formed such a tangle. Stangerson was concerned in the death There are, of course, details to be filled in, but I am certain of all the main facts, from the time that Drebber parted from Stangerson at the station, up ished. to the discovery of the body of the of the secretary. They had been seen latter, as if I had seen them with my

own eyes. I will give you proof of my knowledge. Could you lay your hands upon those pills?" "I have them," said Lestrade, pro-

ployed between \$:30 and the time of tending to have them put in a place the crime and what had become of him of safety at the police station. It was and nut trees. the merest chance my taking these

not attach any importance to them." "Give them here," said Holmes. calling upon all the hotels and lodging "Now, doctor," turning to me, "are

They certainly were not. They wer companion had become separated the of a pearly gray color, small, round, natural course of the latter would be and almost transparent against the

"From their lightness and transparency, I should imagine that they are soluble in water," I remarked.

"Precisely so," answered Holmes 'Now, would you mind going down and fetching that poor little devil of a ter-

yesterday evening in making inquiries rier which has been bad so long, and entirely without avail. This morning which the landlady wanted you to put I went downstairs and carried the dog upstairs in my arms. Its labored as to whether a Mr. Stangerson was breathing and glazing eye showed that it was not far from its end.

Indeed, its snow white muzzle proclaimed that it had already exceeded he was expecting, they said. 'He had the usual term of canine existence. I "I will now cut one of these pills in

It seemed to me that the mists in my own mind were gradually clearing away, and I began to have a dim, vague perception of the truth.

"All this seems strange to you." continued Holmes, "because you failed at the beginning of the inquiry to grasp the importance of the single real clew which was presented to you. I had the good fortune to seize upon that, and everything which has occurred since then has served to confirm my original supposition, and, indeed was the logical sequence of it. Hence, things which have perplexed you and made the case more obscure have served to enlighten me and to strengthen my conclusions. It is a mistake to confound strangeness with mystery The most commonplace crime is often the most mysterious, because it presents no new or special features from which deductions may be drawn. This murder would have been infinitely more difficult to unravel had the body of the victim been simply found lying in the roadway without any of those outer and sensational accompaniments which have rendered it remarkable.

These strange details, far from making the case more difficult, have really had the effect of making it less so."

(To be Continued.)

Things That May Interest You. E SELECTOR CONCERCIONE CONCERCIONE

Over a million persons die yearly in Europe of consumption.

Five hundreda nd eighty-seven distinct languages are spoken in Europe. Out of 2,599 murders of Christians in Turkey last year there were only 61 cases in which the murderers were pun-

The longest railway run in the world without changing is on the Cauadian Pacific, from Halifax to Vancouver. 3,662 miles.

The biggest orchard in the world is one of the stitches." near Santa Barbara, Cal. It covers 1,700 acres and contains 31,000 fruit

The amount of heat generated by a man's body in a day's work is sufficient to raise 63 pounds of water from freezbing to oiling point.

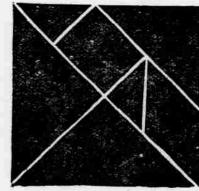
Lord Kelvin, who is now 78 years of age, is entitled to place no less than 28 letters, indicating various titles of honor, after his name.

During the past ten years immigra

creased. Three are 6,000 mouks on the promontory of Athos. They pay to the sultatn 2,000 pounds a year for the privilege of being allowed to govern themselves.

last twelve years from 97 io to 40, and aloud: much the same is the case with the Sootch whaling industry.

SOME OF THE FIGURES.



HOW TO CUT THE CARDBOARD. Cut the square of cardboard in seven parts, following the white lines, and you will be able to make many amusing figures, also all the letters of the alphabet.

Ruth's "Thank You" Letter. Ruth skipped to the door to see what the mail carrier was bringing. Then came a delighted squeal, and she danced back, her eyes shining as she tore the envelope, and something "fat and

soft" fell out. "Oh! oh! Look, mother! A lace handkerchief for me, and I never had one before. And here's a note, and it says, 'For my dear niece Ruth, from her Aunt Mary, with her love in every

"It is a beauty," said mother. "You will want to write and thank aunty for it, and you surely ought to send a very nice letter for such a pretty present.

" Ruth was seven, and had learned to write so well that her father, who was a traveling man, was very proud of the letters his little girl sent him. He

about capitals and periods and comherself, and as plain as print. "Ver-

diggle writing," explained Ruth.

"Dear Aunty-The map you sent me They are now living on their capital,

is the sweetest one I ever had in all which is being rapidly overdrawn.

ics," because It takes the same place, only to an even greater degree, in these hot countries that wheat, rye and barley take in West Asia and Europe, and that rice takes in India and China.

Man in the Moon Off Duty. "I think the man in the moon must be sick," said little Fred, one dark night.

"Why, dear?" asked his mother. "'Cause," replied the youthful observer, "he didn't light up to-night."

Willing to Take Chances. A little girl wanted more buttered toast, but was told that she'd had enough and that more would make her ill, "Well," said she, "give me anuzzer piece and send for the doctor."

IDLERS AND THE OVERWORKED.

Both Classes Need Pity-One Is Aimless and the Other Is Driven.

In fine, I hardly know who are most to be pitied, the rich or idle and lazy, who underwork, or the very poor who must overwork to live. The former grow flabby or tense, according to their heredity, in both muscle and mind, become fastidious, finnicky and sentimental, are specially prone to yield to temptations, must aimlessly change

their interests, locations and pursuits from sheer ennui; are easily bored, and finally lose the power of being strenuous about anything. The effects of an inactive life upon the offspring are sometimes sadly and markedly degenerate.

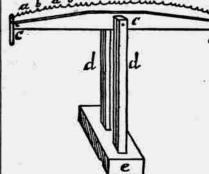
The overworked, especially if young are prone to many forms of arrest. Children are undergrown in both height and weight; they are robbed of the paradise of leisure, which is the literal translation of the Greek word school. The high ideals and ambitions normal to adolescence fade into a dull state of apathy and discouragement, and, at worst, of smoldering revolt against the existing order of things. To be always tired is miserable, and individual or social misery is a powder magazine lia-

ble to explode at any time. Man is endowed with a fatigue sense that tells him when he is tired, continues a writer in Ainslee's. It seems always kept them, and carried them to be a specific feeling, due perhaps to accumulated products of decomposition

in the muscles. This pain-tire is a warning to stop or let up. It is, however, possible to press on in defiance of it, and if we persist in so doing there comes a point when this fatigue sense is itself fatigued and tired out and ceases to act. This is when runners get their second breath; when announced Ruth, with a tired sigh. those beginning night work have "I'll read it to you, mother, and you fought through the period of sleepiness

The number of ships in the Ameri- aunty for that dear, lovely, beautiful to go to bed and feel very wide awake can whaling fleet has fallen off in the handkerchief." Then Ruth read this and alert as if they could go on forever. But the day of reckoning comes.

pounds of potatoes would, as far as It requires less work to keep such a light labor and seems to have little mere space is concerned, give 4,000 saw in order. Medium thickness is control over the hind quarters at times. pounds of bananas, and with a frac- best. A thick saw is clumsy and cuts During a portion of the time the appetional amount of the same trouble. It a large groove, while a very thin one tite is almost ravenous, at other times has been called the "Prince of the Trop- requires frequent resetting. Our cut there seems to be little appetite. When saw. The base, e, is 2 feet long, 1 foot wide and 6 inches high. It should be fastened to the floor. The pieces, d, d, are 2x3 inches and are mortised in the base. The piece, c, is 1x6 inches, cut



SAW-FILING DEVICE.

shape of saw and beveled to the saw There are three <sup>1</sup>/<sub>2</sub>-inch bolts at c, c, c, on which saw rests and is tightened when put in the frame. The entire height is 45 inches .- W. A. Sharp, in Farm and Home.

Feed for Laying Hens. There is probably no food better calculated to promote laying in fowls than cowpeas. Peas or beans of any sort are good, but large ones must be ground. or fowls will rarely eat them. Of cowpeas the smallest variety should be chosen, as fowls unused to such grain must be accustomed to it gradually. But once get them to eat peas and the victory is won. They are a perfect substitute for insects, meat scrap, bloodmeal and other animal preparations that are often so combined with cheap substances that the hens are a long time learning that when they are fed

"Lobsmith's concentrated egg food" they ought to lay fluently, instead of almost imperceptibly. Pea vines with peas on them cut as soon as the peas are full grown and while yet green, thrown into the chicken yard, will give them exercise and the very sort of food their nature craves. They will eat the peas, the leaves, and as much of the stems as they can break up small

enough to swallow.

A Cood Thing to Do.

There is no branch of farm opera tions that can be permanently and profitably improved more easily and at less cost than the poultry yards. A dollar or two invested in eggs of good breeds of fowls will bring back many times the investment within a year or two. If you want to improve your poultry, you can do it quickly, cheaply

and with but little risk. Breeders have learned that it pays to send out no eggs except from good stock. A sitting or two is all that is Clipping Work Horses.

Whether or not it pays to clip work horses was tested at the Michigan experiment station and reported in a recent bulletin. The conclusions were not as definite as might be desired. The station, however, believes that the horses which were clipped did their work with much greater comfort in early spring than those which were not clipped. This of course means a great deal when animals are at work preparing the land for spring crops. The clipped horses always look better.

## Commercial Feeding Stuffs.

The New York experiment station says that in its inspection of commercial feeding stuffs unmixed or standard goods were found to be of fairly uniform quality and practically as good as the guarantees except in a single instance. The discrepancies occurred with the mixed goods, many of which contained oat hulls, as shown by the percentage of crude fiber present. Adulteration of cornmeal and other grain products appears to be practiced.

Grass for Sandy Lands.

Awnless brome grass (bromus inermis) will be found excellent for use on drifting sands. It is a perennial, looks somewhat like blue grass and is suitable for light, dry, poor soils and resists dry weather. About fifteen pounds of seed per acre should be used. It spreads by creeping underground stems or root stocks. It will not thrive on wet solls. While not as valuable as many other varieties, yet it serves well

needed for a good start. A very few on light sandy soils upon which no othdollars spent for good ergs means a er grass will grow.

See if you can make every letter right,

just as aunty did every stitch."

round in his vest pocket. She knew tion to America from Germany, Ireland mas; she could spell the words in the

and England has decreased, while that First Reader, and some in the Second from Italy, Asutria aud Russia has in- Reader, too. When she wrote, every letter was round like chubby Ruth

> "My 'thank you' letter's all done," tell me if it's nice enough to send to that comes when they have been wont