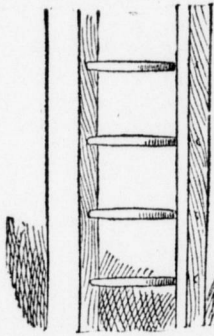




PERMANENT LADDER.

One Should Be in Every Barn Because It Takes Up Little Room and Never Slips.

A permanent ladder, such as shown in the cut, has numerous advantages over the movable variety. It takes up no more room in the barn floor and never slips. Moreover, if the "rungs" are strong, the ladder will never break down. All weight coming upon it longitudinally. The one shown herewith has a post at the side of the main, or



PERMANENT BARN LADDER.

feeding floor, for one side, and a light 1 1/2 by 3/4-inch strip for the other side. Pin the rungs on each side carefully, and the ladder will be practically indestructible. The light side piece should be securely fastened at top and bottom, so that the whole ladder may be perfectly rigid. The top can be mortised with a cross beam in most cases—the beam that runs parallel with the barn floor. If the common detached ladders are to be used one precaution should surely be taken—they should have sharp iron points inserted in the lower ends, so that there may be no chance whatever in their slipping. This is one of the great dangers of the ordinary ladder, and another is that arising from weak "rungs." An ounce of prevention is valuable in this case.—N. Y. Tribune.

SALTING THE SHEEP.

A Method That Has Given Genuine Satisfaction to One Who Has Tried It for Years.

I would like to describe an apparatus for salting cattle and other stock so they will always have salt before them and no waste, writes Joseph H. Yoder, in the National Stockman. For cattle or horses I would prefer to use rock salt placed in boxes or troughs for the winter and scattered about the pasture on the grass in summer. Rains have little effect upon it and this will be found both convenient and economical. For sheep, however, this plan does not work so well. The rock salt is so slow to dissolve that they are not able to get a sufficient amount of it to satisfy their wants, hence it is necessary to use the loose salt for them. During the winter a box can be fastened up at a convenient place in the shed and at the proper height so they can have access to it at all times of the day. In summer if they have not a shed to run under the box can be fastened to a gate post and have a roof placed over it so as to keep out the rain. If it is desired to use loose salt for cattle the same arrangements can be used as have already been described for sheep. A roof over the box should be high enough to be entirely out of the way of the animals. Where loose salt is used it is necessary to be careful to keep a supply in the box all the time, as the animals are liable to eat too much if they go without for several days.

CHEAP MOTIVE POWER.

A Small Gasoline Engine Will Do More Work, at Less Expense, Than Wind or Water.

The ingenious farmer can contrive many ways whereby natural forces may be made to serve his purposes. He can so harness water that it will grind feed, shell corn, saw wood and chop feed; he can secure the services of the wind for similar purposes, and there are gasoline engines, tread powers and steam powers ever ready to do his bidding. These last three are powers which manufacturers have for sale, while the water and wind power may be secured without much cost.

It is astonishing how much work can be gotten out of a little gasoline engine; it will earn its price every week on an ordinary farm. Its feed is cheap and its durability and strength are remarkable. And another important thing is the engine is cheap. It can be used for a great variety of work requiring motive power. For running the corn sheller, ensilage cutter, corn husker, wheat fan, grain cleaner, bean huller, etc., it is a great convenience. The price of gasoline engines makes their purchase more practical than to attempt to secure the services of the wind or water. Besides, they are so much more reliable.—Farmer's Voice.

Grinding Grain for Cattle.

Does it pay to grind the grain and cut the hay? Opinions differ, as the cost of the labor is sometimes greater than the gain made by cutting the feed. It is claimed that if grain is ground there is a saving of one-third, and that 15 pounds of hay when cut up fine will be more serviceable than 20 pounds uncut. Cutting the hay permits of mixing with it not only ground grain but linseed or cottonseed meals.

STORAGE ROOM NEEDED.

An Important Item Which Unfortunately is Overlooked by Quite a Number of Beekeepers.

It is just as unreasonable to expect bees to store you a crop of surplus honey, without ample storage-room properly equipped, as anything can be, and to complain at the bees for not doing it is proof sufficient of lack of intelligence. Yet it is done.

You will occasionally meet an old "mossback" that will tell you that bees do not do any good in this country any more, and that they cannot make a living here, or they cannot make a living there, when the facts are that his remarks are applicable to himself instead of the bees.

Some who should know better may also tell you that this country is becoming overstocked with bees, when we all know that there are tens of thousands of pounds of honey going to waste for every one pound gathered, for want of bees sufficient to save it.

This country is improving faster in nectar-producing blossoms by far than the rate of increase of bees. While it may be true that some localities are overstocked with bees, yet, take it as a whole, it would be absurd to think of.

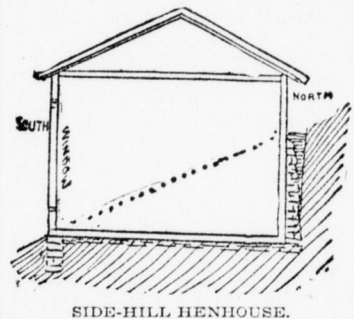
The amount of storage capacity properly applied for surplus honey has all to do with the size of the crop, and if we do not apply it we fail. We may have a poor honey flow which we cannot help, but we can get ready for it if it comes, and it seldom fails to pay expenses, to say the least. The best standard hives are all equipped with the necessary storage-room for surplus, and if we bring these into use we seldom make a mistake in this particular.

There is a right time and a wrong time to add surplus boxes, but as a rule they should be applied at the beginning of the principal honey flow of the season. Colonies must be strong to at once accept them, and weak colonies should not have them put on until they become strong. Supers should also be added to a colony when it is crowded for space in the brood chamber, and thus prevent it from swarming, if possible.—A. H. Duff, in National Rural.

A SIDE-HILL HOUSE.

It Secures Great Warmth for Poultry in Winter and Keeps Them Dry in Summer.

The cut shows a cross-section of a poultry house built on a side hill, the arrangement being such as to secure great warmth, and no inflowing of water—the usual trouble in building into a bank. Loose stones behind the retaining wall conduct the water from the hill down into a tile drain below the wall (the wall is cemented), while



SIDE-HILL HENHOUSE.

any other water that may overflow the tile drain runs along through the loose stones beneath the house, and runs into the loose stone wall beneath the front side of the house. A house ten feet long, or a hundred feet, could be built in this way along a hillside. A house of this kind on a southern exposure is excellent for winter use, being sunny, protected from the cold north and northwest winds, and having good drainage in front. When built as we have described, the drainage from the rear cannot affect it injuriously.—Farm Journal.

NOTES FOR BEEKEEPERS.

Never pull up the cover that the bees have so closely sealed down unless compelled to do so.

In all hives there should be three personages—the queen, the worker bee and the drone.

Beekeeping combined with fruit-growing enables one to take a double crop from the same land.

Any extra work about the apiary should be attended to and everything gotten in readiness before the bees begin to swarm.

Worker bees, being undeveloped females, may now and then be sufficiently developed to lay eggs, but their eggs will produce only drones.

The worker bee does all the work of the hive, gathers in the honey, pollen and water, secretes the wax, builds the comb, ripens and caps the honey.

When returning frames to the hive, adjust them slowly and carefully. Do not slide the frame to its place at one push; slide it up slowly, just to touch the next frame.—Maine Farmer.

Beekeeping for Farmers.

D. N. Ritchie is very emphatic in the belief that every farmer should keep bees, and says a farmer who hasn't one or more colonies is not up to the times. He thinks not five per cent. of the farmers have honey on the table for food, and he probably might have made the percentage much smaller without distressing the truth. A notable statement is this: "I can show you farmers living by me who had not had a crop of clover seed for 20 years, until I moved here and bred my bees to such a size that they can work on the red clover; and now they are getting large fields of the very best of seed."—Busy Bee.

Cat Had a Long Fast.

A cat belonging to a fire company in Cincinnati recently disappeared and was not found for 13 days, greatly to the amazement and grief of its owners, who searched for it throughout the entire neighborhood of the engine-house. Their efforts were finally rewarded when he was discovered buried under a ton of hay that had recently been deposited in the establishment. He had been there for all that time, and when taken out, very thin and sick, gave evidence that he was yet able to purr under caresses and renew his natural avocation as a rat catcher.

Marquette, on Lake Superior.

is one of the most charming summer resorts reached via the Chicago, Milwaukee & St. Paul Railway. Its beautiful location, beautiful scenery, good hotels and complete immunity from hay fever, make a summer outing at Marquette, Mich., very attractive from the standpoint of health, rest and comfort. For a copy of "The Lake Superior Country," containing a description of Marquette and the copper country, address, with four (4) cents in stamps to pay postage, Geo. H. Heafford, General Passenger Agent, Chicago, Ill.

Wholly Unexpected.

"Is the head of the family in?" asked the agent at the door. The meek little man with the slight side whiskers replied at once: "I am he." Now, the answer, violating all traditions, was deemed rarely humorous by the over-hearers, to whom the unexpected was the soul of wit.—Indianapolis Press.

Best for the Bowels.

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

Resenting an Insult.

Mars, searching among the stars for one who would love him for himself alone, had assumed a modest disguise. Thus he wooed Venus, and told her of his love. "Are you serious?" she asked, cautiously. "Madam," he cried, "I am not." For Sirius, as every one knows, is the Dog star.—Cincinnati Enquirer.

Do Your Feet Ache and Burn?

Shake into your shoes, Allen's Foot-Ease, a powder for the feet. It makes tight or new shoes—Feel Easy, Cures Corns, Itching, Swollen, Hot, Callous, Smarting, Sore and Sweating Feet. All Druggists and Shoe Stores sell it, 25c. Sample sent FREE. Address, Allen S. Olmsted, Le Roy, N. Y.

His Sole Object.

Stranger—You say old Zeke only had a knife when he was tackled by the grizzly. Did he live to tell the story? Native (disgustedly)—That 'pears ter be the only thing he did liv fur, doggone it.—Philadelphia Record.

Lanc's Family Medicine.

Moves the bowels each day. In order to be healthy this is necessary. Acts gently on the liver and kidneys. Cures sick headache. Price 25 and 50c.

Always Dressed Up.

If all were rich, no doubt 'twere best, in some ways, we suppose, but, oh how sad to lose that zest we feel in Sunday clothes.—Indianapolis Journal.

To Cure a Cold in One Day.

Take Laxative Bromo Quinine Tablets. All druggists refund money if it fails to cure. 25c. One of the funniest things at an amateur concert is the sad faced girl in a clinging black dress who wails a comic song.—Acheson Globe.

Cartier's Ink Is Used by the

greatest railway systems of the United States. They would not use it if it wasn't the best.

The saying that a bird on the hat is worth two in the bush is no joke; that is, supposing a bird on the hat to be worth anything near what it costs.—Detroit Journal.

Piso's Cure is the best medicine we ever used for all affections of the throat and lungs.—Wm. O. Emsley, Vanburn, Ind., Feb. 10, 1900.

"I don't enjoy my meals any more," an old fellow said to-day. "I ate up all the good things 25 years ago."—Acheson Globe.

PURNUM FADELESS DYES do not stain the hands or spot the kettle. Sold by all druggists.

Do not stone the baby when you rock the cradle.—Chicago Daily News.

Dyspepsia is the bane of the human system. Protect yourself against its ravages by the use of Becman's Pepsin Gum.

Unless you believe in the heroic you will never be a hero.—Chicago Daily News.

A learned insectologist has discovered that the best time to examine the wonderful construction of a hornet's nest is after the hornets have moved out.—Chicago Daily News.

Very Odd.—They were at Niagara falls for their first visit, and they were deeply impressed. "Those rapids seem to be fairly alive," said she. "Fairly alive," he asserted, "and yet," he pointed out, "they have been shot several times."—Town Topics.

A bow-legged Baltimore man has submitted to an operation in order to overcome the objections of a girl who doesn't admire the wishbone effect in husbands. Yet there are persons who affect to believe that love is deteriorating.—Washington Post.

We hear a good deal of the man who thinks the world is in danger of flood when his own teapot has a hole in it, but not so much of him who regards the universe as in sound repair when his particular leak is soldered.—Indianapolis News.

"These pictures," the archaeologist of the distant future is explaining, "represent the cake-walk of the ancients. The cake-walk consisted of a number of movements evidently designed to assist the digestion of cake. Hence the name."—Detroit Journal.

There was a vacant seat in the car. Little Willie allowed the strange lady to take it, although he looked tired. "Thank you, my dear," she said to him. "I do not think you take the seat yourself? You are quite weary." "So'd you be weary, lady, if yer father found out yer vent fishin', like mine did."—Philadelphia Press.

They were sitting on the beach at Coney. He turned at length and said: "Why is the ocean like June?" There was a flutter of interest in the groups sitting about them. She shook her head. "Why?" "Because," he replied, "and a breathless silence, because it is maritime." A man near by who had been burying himself in the sand arose and left with every indication of sickness.—

FRENCH LOSING GROUND.

Language of the Republic Not as Popular on the Continent as It Once Was.

Is French losing ground abroad—that is to say, is it being less spoken and read by educated people on the continent than was formerly the case? This is a question which has from time to time given rise to interesting discussion, and certain lamentations lately uttered by a Parisian review have brought it once more rather prominently to the front, says the London Telegraph.

There is no doubt that during recent years it has met with formidable rivals. The tongue of united Germany is more studied than it was in the older days, and various enterprising nationalities of the smaller kind are bestowing more attention on their own language and literature than they had had the opportunity of doing for centuries. All this may be readily admitted, and nothing could be more natural. The immense facilities now given to traveling, the enormous expansion of international trade and the impulse which the nationality movement has received were all bound to lead to this result.

The circulation of the blood is an affair of the heart.—Chicago Daily News.

WALTHAM WATCHES

The Waltham Watch Company was the first company in America to make watches; the first to be organized (half a century ago), and is the first at the present time in the quality and volume of its product.

Waltham Watches are for sale by all retail jewelers.

Satisfaction

is unusual with "Five-Cent cigar smokers," but it has been the everyday experience of hundreds of thousands of men who have smoked

Old Virginia Cheroots during the last thirty years, because they are just as good now—in fact, better than when they were first made.

Three hundred million Old Virginia Cheroots smoked this year. Ask your own dealer. Price, 3 for 5 cents.

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BATHING FISHING DUCKING ROWING YACHTING

Automobilist's Arcadia Level roads along the ocean and shaded highways on the rolling Sound Shore.

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Fast and Frequent Train Service. Roadbed cinder ballasted and oiled.

For illustrated books and full information send stamps as follows:

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Unique Long Island, (Photographic reproductions) 4c
Summer Homes, (Hotels and Boarding Houses) 4c
Cyclists' "Paradise," (Maps, Routes and Distance) 2c

LONG ISLAND RAILROAD COMPANY,

H. M. SMITH, Traffic Manager. H. B. FULLERTON, Special Agent Pass. Dept. Long Island City, N. Y.

REWARD! We do not employ agents in this state. We do not employ agents anywhere.

We do not sell merchandise from wagons in exchange for butter and eggs; but we operate entirely on a catalogue cash basis.

We will pay a suitable reward to anyone aiding us in prosecuting and convicting those who are showing a copy of our catalogue, selling goods from wagons, representing themselves as our authorized agents.

JOHN M. SMYTH COMPANY, The Modern Mail Order House, Established 1867. 264654 150 to 166 and 287 to 289 W. Madison Street, CHICAGO.

TENTS advertisement for T. M. Roberts' Supply House, Minneapolis, Minn. Includes list of tent sizes and prices.

Got the Best of the Lawyer.

A certain Glasgow lawyer was fond of setting traps for workmen who might happen to be working in or about his house by leaving money or some valuable article about. A workman, well aware of the fact, found a half-crown lying on the floor in one of the rooms. He smiled as he said to himself: "I know what that's for," and, taking a brace and a bit from his bag, he drilled a hole in the coin, and, putting a large screw nail through it, he fastened it securely to the floor. The lawyer has not set any traps since.—Chicago Chronicle.

New Railroad to San Francisco

Santa Fe Route, by its San Joaquin Valley Extension. The only line with track and trains under one management all the way from Chicago to the Golden Gate. Mountain passes, extinct volcanos, petrified forests, prehistoric ruins, Indian pueblos, Yosemite, Grand Cañon of Arizona, en route. Same high-grade service that has made the Santa Fe the favorite route to Southern California. Fast schedule; Pullman and Tourist sleepers daily; Free reclining chair cars; Harvey meals throughout.

General Passenger Office The Atchison, Topoka & Santa Fe Ry., CHICAGO.

CHICAGO to OMAHA

Double Daily Service logo for Missouri Central Railroad.

New line via Rockford, Danbury, Waterloo, Fort Dodge and Council Bluffs. Buffet-library-smoking-cars, sleeping cars, free reclining chair cars, dining-cars. Send to the undersigned for a free copy of Pictures and Notes En-Route illustrating this new line as seen from the car window. Tickets of agents of I. C. R. and connecting lines. A. H. HANSON, G. F. A., Chicago.

FREE PRESENTS advertisement for Home Supply Co., Buffalo, N. Y.

Cream Custard Free advertisement for Burnham's Hasty Jellycon.

READERS OF THIS PAPER DESIRING TO BUY ANYTHING ADVERTISED IN ITS COLUMNS SHOULD INSIST UPON HAVING WHAT THEY ASK FOR. REFUSING ALL SUBSTITUTES OR IMITATIONS.

RHEUMATISM Van Buren's Rheumatism Compound advertisement.

PISO'S CURE FOR CROUP advertisement.