

A Manual on Silk Raising.

By Rev. Jno. Scottford, Louisville, Kas. Prepared especially for the Kansas Farmer. CHAPTER III. THE COCOONERY.

There may be a spare room in your house, larger or smaller according to the number of worms you intend to feed. A room 14 feet square and 8 feet between joists would be large enough to raise 50 pounds of cocoons or \$50.00 worth of silk. A building need for a stable during the winter cleaned out, nicely and fitted up with the proper feeding boxes will do well, provided it has a tight roof over it, and is furnished with doors and windows, by which to regulate the temperature from sudden changes. An inexpensive building may be erected for one or two hundred dollars, amply sufficient to raise \$400, or \$500, worth of silk, and when the silk-worm season is over, it can be used as a store room, granary or for a stable to shelter and feed your stock in the winter. Such a building would need no floor. It could be built of 14 or 16 feet boards sawed in two and nailed to a light 2 by 8 sill below, and to 2 by 4 posts above, and properly tied together by cross-sills and beams, and covered with a roof that will not leak. Such a building would do for the first two or three years, till the profits of the business should enable you to erect such a building as your experience should indicate as proper.

The building provided, the next step will be to erect frames and feeding boxes, so arranged as to feed the largest number of worms in the smallest space, taking into consideration convenience of feeding, proper ventilation &c. And perhaps no better arrangement can be made than the one adopted in the cocoonery at Silkville. The feeding boxes are all of the same size, are two feet wide, by four feet long, and two inches deep; the bottom is composed of two rows of slats, half an inch wide, by three-fourths of an inch deep, nailed lengthwise to a square strip at each end of the box, and one inch apart in one row on the upper side of this square strip, and the other row on the under side so as to form a kind of triangle; the object of which is to form a place for the worms to ascend from the box below, and spin their cocoons. This open-slat bottom, is covered by a paper on which the worms are spread, and upon which they are fed. When the worms have reached maturity and shown a disposition to wind their cocoons, ladders constructed in the same way as the bottoms of the boxes, and of the same width and just long enough to reach from the bottom of the box to the slats of the one above with two slats an inch longer at the upper end, so as to inter-lock with the slats of the bottom of the one above, should be prepared; two or more for each box; then partition the worms at the points you wish to set up the ladders, you can put them in place. Up these ladders the worms will ascend to the slats above; some stopping at various points on the ladders where they will form their cocoons. A frame work composed of a row of slats reaching the length of your cocoonery, leaving only space enough at each end to pass around. These studs should be just far enough apart to admit your feeding boxes lengthwise. A corresponding row just four feet from the other, and tied to it by cross slats twelve or fourteen inches apart, the one above the other, these rows of studs, tied together by narrow strips nailed to them—say three on each side, so as not to interfere with the placing and replacing of the boxes, and you have a frame work into which you can slide your boxes, two and two on each cross slat, and reaching from one foot from the floor, to the top of your standards or upright studs. A space of 2 feet 6 inches, should be left on either side of each tier of boxes, so as to admit those who feed and care for the worms, a free passage to and from the boxes. When the boxes are above the head of the one feeding them, they can be reached by a movable step-ladder.

There is a kind of sorrel growing in all parts of the State resembling pepper-grass, which, when dried is a very good substitute for the ladders described above, on which the worms can ascend to wind their cocoons. These can be set up so that their tops will reach and inter-lock with the slat bottoms of the boxes above them. They should be gathered the previous year, and dried with their tops downwards.

[TO BE CONTINUED.]

POTATO CULTURE.

By B. A. Cook.

Continued from Farmer of May, 23d. Every grower's observation has established the fact that, for quality, the late varieties excel the early ones. The English stamp, is claimed by its friends, to be the earliest of all the early kinds. It is of very fine quality and is not very liable to rot. The cherry blow is early, grows large and yields well, but its quality is quite indifferent. The old time honored mercer or neshannock, is among the latest of the early kinds; no testimony is needed in regard to its quality. For the first few months after its maturity it is very excellent but as the time for planting approaches its quality is deteriorated somewhat, it is grown to some extent as a late potato but its liability to rot discourages its cultivation. The late varieties now cultivated are reduced to a less number than the early. I may say that

the early rose is now the standard variety; it comes early enough for all ordinary use, and is a good keeper, is not disposed to rot and of excellent quality. Of the late varieties, the carter is one of excellent quality but its liability to rot, has been a good reason for its non-cultivation. Probably the old style of long pink-eye, in the matter of quality, is not excelled by any potato ever grown, but under circumstances favorable to its growth, its size is very small and the product unrepresentative, it is rarely cultivated now; the numerous other varieties cultivated in past years are now discarded, and we really have but two standard varieties cultivated now, and those are the old and reliable peachblow and another variety called the red peachblow or more commonly known as the Irish cap.

These varieties are so near alike, as regards quality &c., that they may well be placed together as our standard late varieties. The peachblow potatoes have so many striking peculiarities and so many excellent traits that an extended notice is warranted. If planted in a rich argillaceous soil it grows large, is hollow in the center, is coarse in flesh; is very inferior in quality, and under these circumstances has a tendency to rot somewhat; under favorable circumstances there is no potato known that is so secure as this against this disease. A more satisfactory crop of the peachblow can be grown on poor soil than of any other variety known. It will grow successfully on the same ground year after year, which no other variety will do. It is my favorite potato.

CUT AND UNCUT SEED.

It is the custom, generally, of growers to cut their seed potatoes; economy first suggested the idea and made the practice general. An acre of ground will require, of medium sized potatoes planted whole, full twelve bushels. As the seed is cut by many, from five to six bushels will plant an acre. When the growers plant, as is customary, from five to thirty acres, and when potatoes are worth from fifty cents to one dollar per bushel, the saving of from five to six bushels per acre appeals strongly to their parsimony, generally, have come to the conclusion that cutting the seed is most judicious and most profitable. This conclusion is not based on accurate tests, and therefore no class of men were ever more mistaken in regard to the correctness of a practice pertaining exclusively to their own avocation than are these same potato-growers. Ordinarily but two eyes are left on a piece and two pieces make a hill; sometimes the potatoes are cut so small as to leave the most of the potato for eating. Cut seed never will produce as good, nor as many bushels of potatoes to any given quantity of ground as whole seed. To prove this, let any grower commence his field for example, with whole seed say the first row, then plant every other row with cut seed, so that the soil and cultivation will be the same, make such a record either by stakes set at each row properly inscribed or otherwise, so that you can tell at digging time which was planted with the cut and which with the uncut seed, dig and measure each by itself, and he will find that the uncut will produce the largest number of bushels, and better potatoes on the same ground. But suppose another experiment be tried. Let any grower select large potatoes for seed and plant them whole, from this produce do as before and thus continue to do year after year, and he will find that the potato will increase in size, and that just in proportion as they grow or increase in size above a fair medium, he will find his potatoes deteriorated in quality.

The experiments which established the above facts in relation to cut and uncut seed established another fact, that small but matured potatoes uncut, should always be used, these planted in observance of conditions above stated, the grower, with a fair season and fair cultivation, will always produce potatoes which, in all respects, will be of the highest attainable perfection.

CULTIVATION.

The first act of cultivation should be with a light harrow, just as the potatoes are coming out of the ground, this kills the weeds which are already growing, the after cultivation should be with the cultivator and hoe, keeping the ground level until the tops are grown up as high as they will grow and stand up, when the plow should be put in to assist to form the hills, and thus end the cultivation.

THE POTATO DISEASE.

Is still in mystery. There are a hundred theories, more or less in regard to the cause of it, but not one of them establish a claim to reliability, but this does not matter, he who will plant whole, sound and small potatoes, in a sandy soil, with a fertility as above stated, that will produce per acre, a hundred bushels of neshannocks, or not to exceed one hundred and fifty bushels of peachblows, will never be troubled with the potato disease.

DIGGING.

Digging and storing is full half of the labor of growing and securing a crop of potatoes. Potato diggers have been invented, but none have found their way into this region, which will do the work well only under the most favorable circumstances. A small plow, I find to be the best implement for large fields.

CARE OF THE CROP.

The care of the potato should begin with the digging; they should be picked up as soon as dug, not allowing them to lie on the ground several hours as is customary; light is very detrimental to potatoes, and strong sunlight

pouring down on them will soon make its effect seriously apparent. The finest potatoes ever grown may be spoiled in a few days from exposure to the light. As soon after digging as convenient, the potatoes should be stored in a dark place, and left in a cellar bin during the entire time that they lie there for the family use, or for market they should be covered with a thin coating of sand to make the absence of light perfect.

EYE FOR PASTURE.

Many persons express fears of having no green feed or pasture in winter, in the newly settled portions of Kansas, particularly in the southwest; at least until the land is put under a complete state of cultivation and all the wild nature destroyed. Some also doubt the success of the tame pasture grasses in the future on old land. Be that as it may, one thing is certain, winter rye will make an excellent pasture on old or new. If sown early on well prepared land it will afford more pasturage to the acre, during fall, winter and spring, than blue grass or timothy. Cows pastured on rye will fatten, or give double the quantity of milk they will when pastured on the wild range or fed corn in the ear. The butter, even in winter, has a nice golden color and sells well in the market. It is also fine for hogs and other stock. Stock need green feed in winter to keep them healthy. Rye pasture is cheaper and easier had and used in winter than root crops. It is the surest crop grown, if not eaten by hoppers, and grows faster in early spring than the usual pasture grasses. It grows well on new soil; sown now for summer pasture and in the fall for fall and spring pasture.

B. P. HANAN.

Langdon, Kansas, May 19th 1877.

FAMILIAR FARM TOPICS.

JAS. HANWAY.

NO. XXXIX.

FIRST IMPRESSIONS.

The more ignorant we are, the more positive we become; at least we will find this to be the case, whenever an opinion has been formed or expressed. Ignorance is frequently very intolerant, for it appears that a certain amount of knowledge is necessary to convince us that our opinions are not always correct.

It has been the cause of surprise to many unacquainted with farming, that so many and various opinions exist amongst farmers on the best and most judicious plans to raise this or that article of agricultural product. Men seeking information are frequently at a loss to know what to do in the premises. How arises this diversity of opinion? There are doubtless various causes operating to produce diversity of opinion among farmers. Perhaps the chief and most universal cause of error is the fact that we are apt to form our judgment or opinion on isolated cases, that is to say, we, by adopting a plan, succeed or fail, and without giving the subject further consideration we recommend or condemn it, as the case may be. This is properly termed jumping at a conclusion.

One of the most successful plans of growing potatoes in Kansas, is to plow the ground, place the potatoes on the surface and give them a very slight covering of dirt, then cover them with ten to twelve inches of straw or half rotten manure from the barnyard. But if the season should be very wet, such a plan might prove a failure. In some years we find a field of wheat that has been sown broadcast and harrowed in, that is number one, but if we take a more extensive observation, we shall find that on an average the drilled wheat will carry off the prize.

First appearances are sometimes deceptive. A stranger traveling over the country, and knowing of the history of the settlement might form some very erroneous impressions in regard to the date of the individual settlement of those who have located on the farms along the line of travel. On his right his eye is attracted to an extremely modest cabin, which from its outward appearance would indicate it was built with little care or attention; around it is firewood scattered in every direction, an old dripped wagon, rusty plows and piles of rails; no garden can be seen, not even a tree or shrub attract the eye; this, says the stranger, "looks deplorable, wretched in the extreme, but then the inhabitants is most likely a new corner, just emigrated to the State, for no man of any refinement or sensibility would think of raising a family with such unpleasant surroundings."

He travels on and his eye is next attracted to a more pleasing spot. There he finds a small tidy dwelling, the house yard is ornamented with various kinds of forest trees, flowers and shrubs are tasteful distributed, the garden is fenced in, and everything looks flourishing and cozy; beyond is an orchard of apple trees which looks as if they had supplied the family with fruit for several years, and there are peach trees and other varieties of fruit. "Oh!" says the traveler to himself, what a contrast! It is astonishing what a few years will do when a little industry is used; how the face of these prairies can become changed. But here is most certainly an old settler, one who most likely came and settled here during the troublous incident to the early settlement of Kansas.

If our observing traveler had reversed his judgment he would have been right. In this case he would find that where the time and opportunity has been given, nothing has been done. The oldest is anti-progressive,

is opposed to railroads, school houses and the whole catalogue of Agricultural machinery which has been introduced within the last few years, he don't believe, in a man troubling his mind by studying agricultural books or newspapers, in a word, he don't believe in "book learning." He takes no newspapers because his grandfather raised a large family of children without expending a dollar in that line. His first impressions cling to him as fly on the walls of an old ruined battlement.

DEATHS TO THE LOCUSTS.

Testimony is pouring in from all sides as to the wonderful success of that cheap little contrivance of sheet-iron and coal tar invented by Mr. Robbins in sweeping up and destroying the grasshoppers. The people of Meeker county are so delighted and encouraged by the success of the experiments which demonstrate the ease with which, by means of this economical instrument, they can conquer the grasshoppers that the people of the whole county are organizing to sweep the county clear of the plague. They have appointed a committee to take immediate steps to place these machines or the sheet-iron and coal tar of which they are constructed within the reach of every farmer in the county, and the county authorities have taken the responsibility of devoting to that purpose a small sum of about \$1,500 in the county treasury. So great a demand, however, had sprung up for these materials, in consequence of the demand for the Robbins' hopperdozer, that it was beginning to be difficult to procure them, and the committee therefore came down to Minneapolis and St. Paul to enlist the efforts of the Governor, and he was so well satisfied of the efficacy of the sheet-iron and tar contrivance that he at once proceeded to make arrangements to furnish at cost all the coal tar and sheet iron which may be needed, not only in Meeker county, but throughout the State. He telegraphed to Milwaukee and Chicago to secure all the coal tar that can be had there, and if this supply is not sufficient, arrangements will be promptly made to secure it from other sources. Similar orders were telegraphed for an indefinite supply of sheet-iron, and these materials will now be furnished by the Governor either at Minneapolis or St. Paul at the rate of \$3.00 per barrel for coal tar and 4 1/2 cents per pound for sheet-iron, and the railroads will carry it free to any point on their lines. About 250 barrels of coal tar have been ordered for Meeker county alone, and some five tons of sheet-iron, and it is thought they will require perhaps twice this when they get the whole people to work. The success of the Robbins' hopperdozer has had a wonderful effect, the committee say, in lifting the cloud of despondency which had settled on the brows of the farmers. The discovery that by the expenditure of one or two dollars in smearing a piece or two of sheet iron with some coal tar, and dragging it over the ground, they can easily exterminate the enemy that had seemed so formidable, and that seven cents' worth of tar will swallow up a bushel of grasshoppers, has put them all in splendid spirits, and they are now going to work with a will, one and all, to clean out the pest. They now know that it is within the power of every farmer in the county with very little effort and at a cost of a dollar or a dollar and a half, at the most, to clear his land of every vestige of the destroyer and to save their crops, and this knowledge has given courage and confidence even to the most timid and the most lazy. What is being done in Meeker county can be done and ought to be done at once in every afflicted county in the State. If in every county afflicted with the locusts, the people will organize as they have done in Meeker county they can sweep the enemy from the State. And if the people won't organize still every farmer can organize on his own account the required combination of sheet-iron and coal tar, and set this besom of destruction to the hoppers in motion by hand or horse power over his fields where the grasshoppers are. If they do not, it will be their own fault. For they have not even the excuse for neglecting to avail themselves of this cheap and simple but effectual contrivance for destroying the hoppers that they cannot procure the materials. We are authorized to announce that Governor Pillsbury has made arrangements now deemed adequate to supply any amount of sheet-iron and coal tar at the bare cost of the materials and now that it has been demonstrated that the hoppers can be destroyed and the crops of every farmer saved by this cheap instrument the public-spirited citizens and the official authorities of every county should at once—to-day, before night—set on foot a movement for enlisting the whole body of farmers, in the prompt and immediate application of this efficacious remedy for the locust plague. There is no time to lose. The hoppers are just now in the stage when they are most easily and effectually disposed of by this contrivance, and every day's delay increases the area of their ravages which ought to be arrested at once. The instrument itself in its first rude form has been considerably improved. Instead of one pan, two or even three are now used, and these make a clean sweep of all the hoppers in their track. Still another improvement is described elsewhere which consists in putting the Robbins' hopperdozer with some improvements on wheels to be pushed by hand instead of drawn by horse-power, thus obviating the disturbance of the locusts by the horse. But, in fact, though the Robbins' hopperdozer is the cheapest, simplest and most effectual of all contrivances for getting rid of the locusts, there are a dozen ways equally effectual, though more costly and laborious, which have been mentioned so many times that we will not now allude to them. The cheapness of this instrument and the ease with which it can be constructed by any farmer and operated by hand or horse-power render it by all odds the best remedy ever devised for locusts. If it had been invented four years ago it would have saved the State millions of dollars. As it is, it will place within easy reach of every farmer a sure protection against the plague this year and in all future time, and henceforth no locust visitation will occasion the farmers of Minnesota any apprehensions. But what we now desire to impress upon the people of every locust-ridden county is the necessity for immediate action. With prompt and energetic action on the part of the leading men of each county they can save the entire crops of the county. And not one hour should be lost in sounding the tocsin of insurrection against the despotism of the locust and arming the whole farming population with this most effective of all weapons for his destruction.—St. Paul (Minn.) Pioneer.

Ten new Granges have been organized in California since the last meeting of the State Grange.

HOPPER DOZERS.

In addition to the Editorial elsewhere, copied from the St. Paul Pioneer, we give our readers the benefit of some further ideas suggested by a correspondent of the same paper.

We have here a number of patent hopperdozers, which will catch a percentage of the insects, but they are none of them sufficiently practical to save a crop. I yesterday put together a machine which I do not propose to patent. It is constructed as follows: I had riveted together two sheets of stove pipe iron, each 27 feet, making a surface of 414 feet. I rolled up the back side about eighteen inches high, and held it in place by nailing to it rounded inch boards. I turned up the front edge, and nailed to it a narrow strip of siding to stiffen the machine under the bottom, well back so that it will balance. I fixed a three-eighths round iron for an axle, and fastened it by driving a staple over it near the ends and into the board and pieces. The wheels should be sixteen inches in diameter, made of inch boards, three thicknesses nailed together, so that the grain of the wood will cross. I push my machine with a handle made of half inch iron, a piece twelve feet long—the ends flattened, and fastened to the end board with screws, the rod bent up and made the proper shape, so as to come about to the bottom of a man's vest when operating the dozer. I cover the surface with tar (common) which will burn and is poison to the hoppers. The machine tills over the axle and can be made to scrape the ground or raised to pass over grain or obstructions. This dozer is a perfect success, gathers the hoppers almost as clean as a reaper, will cut grain, none get away. One week's work and four gallons of pitch tar will clean the worst hoppers 100 acre farm in Minnesota. At one priming with tar yesterday my man caught in about an hour a half bushel, estimated to make ten bushels when grown.

The Dominion Grange of Canada was incorporated at the last meeting of Parliament.

There was \$300,000 saved to the farmers of California last year by co-operation in selling their wheat.

The Grange supply house at Tiffin, Ohio, did a business of \$40,000, on a capital of \$2,500, last year.

Bowling Grange, Leon county, Texas, will hold an industrial exhibition on June 9th, State Master Long will deliver an address.

There will be a convention of Patrons held at the Grange hall in San Francisco, in July, to select the questions upon which the Patrons desire legislation.

Magnolia Grange, No. 179, Magnolia, Putnam Co., Ill., has mapped out a series of fourteen, essays, one to be read at each of their regular meetings, during the balance of this year.

Pee Dee Grange, No. 1,383, Mo., has built a new hall and store together, the hall being above and the store-room below. The dimensions are, 32x18 feet, two stories, each 8 feet high.

The members of the Granges in the vicinity of Texarkana, Arkansas, met at that place on the 19th inst, to arrange for the establishment of a district school under the management of the county Grange.

North Turkey Fort Grange, No. 150, Ohio, is erecting a hall 26x66 feet, two stories high has 3,500 feet of sawed lumber in it, and will cost about \$4,000, much of the labor being performed by the members themselves.

One Grange in Putnam county Ohio, at Gilbo, has a hall that cost them \$8,000, built of brick. There is an evidence of the permanency of our order, and the firm conviction of most of our members that it has come to stay.

The Grangers' business association of San Francisco last week shipped two carloads (20 tons) of California raisins, consigned to Eastern shipping car-load (10 tons) of honey East in a few days.

WHAT IT IS TO BE A WIDOW.

A writer in the Home Journal thus fittingly rebukes the flippancy and thoughtlessness of some young women. "I think it must be a jolly thing to be a young widow." I heard this remark the other day in a group of laughing girls. I think I remember saying such a thing myself in my girlish times. Do you know, girls, what it is to be a widow? It is to be ten times more open to comment and criticism than any demoiseille could possibly be. It is to have men gaze as you pass, first at your widow's cap, until your sensitive nerves quiver under the infliction. It is to have one ill-natured person say, "I wonder how long she will wait before she will marry again?" and another answer, "until she gets a good chance, I suppose." It is now and then to meet the glance of real sympathy, generally from the poorest and humblest men that you meet, and feel your eyes fill at the token, so rare that it is, alas! unlooked for. It is to have your dear, fashionable friends console you after the following fashion: "Oh! well, it is a dreadful loss. We knew you'd feel it, dear." And in the next breath, "You will be sure to marry again, and your widow's cap is very becoming to you." But it is more than this to be a widow. It is to miss the strong arm you have leaned upon, the true faith that you knew never failed you though all the world might forsake you. It is to miss the dear voice that uttered your name with a tenderness that none other could give it. It is to hear no more the well-known foot-steps that you flew so gladly once to meet. To see no more the face that to your adoring eyes seemed as the angels of God. To feel no more the twining arms that folded you so lovingly; the dear eyes that, looking into your own, said plainly, whatever it might seem to others, yours was the fairest face earth held for him. It is to fight with sorrow as a man fights with the waves that overwhelm him, and to hold it at arms' length for a while only to have—in the hours of loneliness and weakness—this torrent roll over you, while—poor, storm-driven dove—you see no haven.

Barton County.

May 19th.—We are having quite a heavy rain which commenced to fall last evening about dark and was at first accompanied with strong winds which ceased about 9 P. M. but the rain continued and at times very heavy, (with thunder and lightning) all night and a light rain all day until night, now only slight promise of cessation. All the streams are full and low or level land is flooded. Wheat looks as well as ever; spring grain is coming out finely; corn looks very well; stock is fattening nicely; I saw a few locusts yesterday, right from Texas. L. H. Lusk.

Patrons of Husbandry.

STATE GRANGE DIRECTORY. Master, Wm. Sims, Topeka, Shawnee Co. Overseer, J. P. Williams, Groveside, Jefferson Co. Lecturer, J. F. Stevens, Lawrence, Douglas Co.

EXECUTIVE COMMITTEE. M. E. Hudson, Mapleton, Bourbon Co. W. H. Jones, Holton, Jackson Co. L. V. Dunderland, Hartford, Lyon County.

More Knowledge. Farmers are not more ignorant than other men, far from it; but what we want, in common with all other men, is more knowledge.

Mr. Sinnett's theory, if he has any definite notions about the matter on which he writes, is that the Federal Government has power to issue an unlimited quantity of notes and decrees that those notes shall not only be used in place of money, but by decreasing it, can give them all the value that gold and silver have.

Friend Sinnett seems anxious to advertise W. A. Berkley's book on money, but if its teachings are reflected in the mistaken theories advanced by Mr. Sinnett, the world will be no great loser if the book is never read.

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declared in most emphatic language, the duty of every citizen as a citizen, to take active part and strike honest blows for the freedom and purity of our institutions.

But of all our duties, that which concerns our children is the most important. We who are past middle life have well nigh done our work, and our habits are so fixed that we change little in our methods, whatever we may learn.

Our friend, farmer Sinnett of Muscatine, Iowa, displays a refreshing vigor of earnestness in advancing his theories of political economy, and most of the readers of the FARMER will doubtless have discovered his remarkable faculty for misapprehending the subject.

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used in place of money as a convenience; and must be based upon real money, gold and silver, that which bears within itself all the value it professes to represent.

Pennies and nickels are token money, and are necessary to make fractional change. No one accumulates any large stock of them, all know their value, and if they could be depreciated at any moment, their entire loss would not give any business man any uneasiness.

But Mr. S. says that the National greenback is based on "not only all the gold, silver and real estate, but every particle of personal property in the nation."

So you acknowledge the corn at last, greenbacks are "based on not only all the gold and silver" etc., and consequently that much vaunted money is absolutely worthless if it is not based on something which has real value.

And now I think I have made it plain even to Mr. Sinnett that his theory of government issuing paper money enough to loan every needy farmer to develop and improve his property, is the most stupendous fallacy that ever entered the brain of man.

A few individuals may be crazed on the subject of finance (this thing has often occurred and history repeats itself) but the mass of mankind is not the fool to believe that government can give value to fabulous millions of paper money by stamping a promise on its face.

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THE ORIGINAL AND ONLY GENUINE "VIBRATOR" THRESHING MACHINES.

Complete Horse Power Establishment, with 24-inch, 28-inch and 32-inch Cylinders, and 8, 10 or 12 Horse Power to match.

The World-wide Reputation of our "Vibrator" Threshers, for rapid threshing, perfect saving, admirable cleaning, no waste, cleanliness, economy in repairs, durability, ease of management, and a general superiority in various other respects, is now fully established and generally acknowledged.

The Best Gate on Earth! Supt. Stalker, of Iowa State Agricultural College Farm, says: "We have had one of them constructed and it is now in successful operation."

Who Wants a Farm Cheap? 500,000 Acres RICH Farming Lands for Sale!

LOW PRICES AND ON LONG TIME. They are situated along the railroad through the Central part of the State of Michigan from the Saginaw river nearly to the Straits of Mackinaw, and contain large tracts of farming lands as good as can be found in any part of the United States.

The Patrons' Commercial Agency OF COLORADO. Is now prepared to handle all kinds of Farm Produce on commission only.

PURE BRED BERKSHIRE PIGS. Have made the breeding of Pure Blood Berkshires a specialty for the past 20 years. My herd now numbers 400 head, including 150 spring and summer pigs.

WANTED energetic men to travel and appoint agents in every county to sell our Indispensable Household Articles to Families. Salary liberal. Add. BROWN & CO., 216 Elm Street, Cincinnati, O.

SHORT-HORN CATTLE. ALBERT CRANE, Durham Park, Marion County, Kan., breeder of pure Short-horns of fashionable blood.

25 FANCY CARDS, all styles, with name, 10c.; 25 Transparent Cards, all styles, with name, 20c.; 25 Swiss Motto Cards, 15 styles, with name, 30c., pre-p'd. J. B. HUSTED, N. Y.

Brooders' Directory.

HALL BROS., Ann Arbor, Mich., make a specialty of breeding the choicest strains of Poland-China, Suffolk, Essex and Berkshire pigs.

WARRIN HARRIS, Trenton, Missouri, Breeder of Short-Horn Cattle with Herd-Book pedigree, also, Pure Blood Berkshires.

JOHN W. JONES, Stewartville, Mo., breeder of thorough-bred Short-Horn Cattle of approved blood and pedigree.

BERKSHIRES a specialty. If you want choice pigs from the best imported stock, send for Catalogue now ready.

LEWIS & SON, Minook, Woodford Co., Ill. Nurserymen and breeders of Choice Berkshire Hogs, and Maltese Turkeys.

General Business Directory. STRAWBERRY PLANTS.—The new ones at reduced rates. Send for price list to SAMUEL MILLER, Sedalia, Mo.

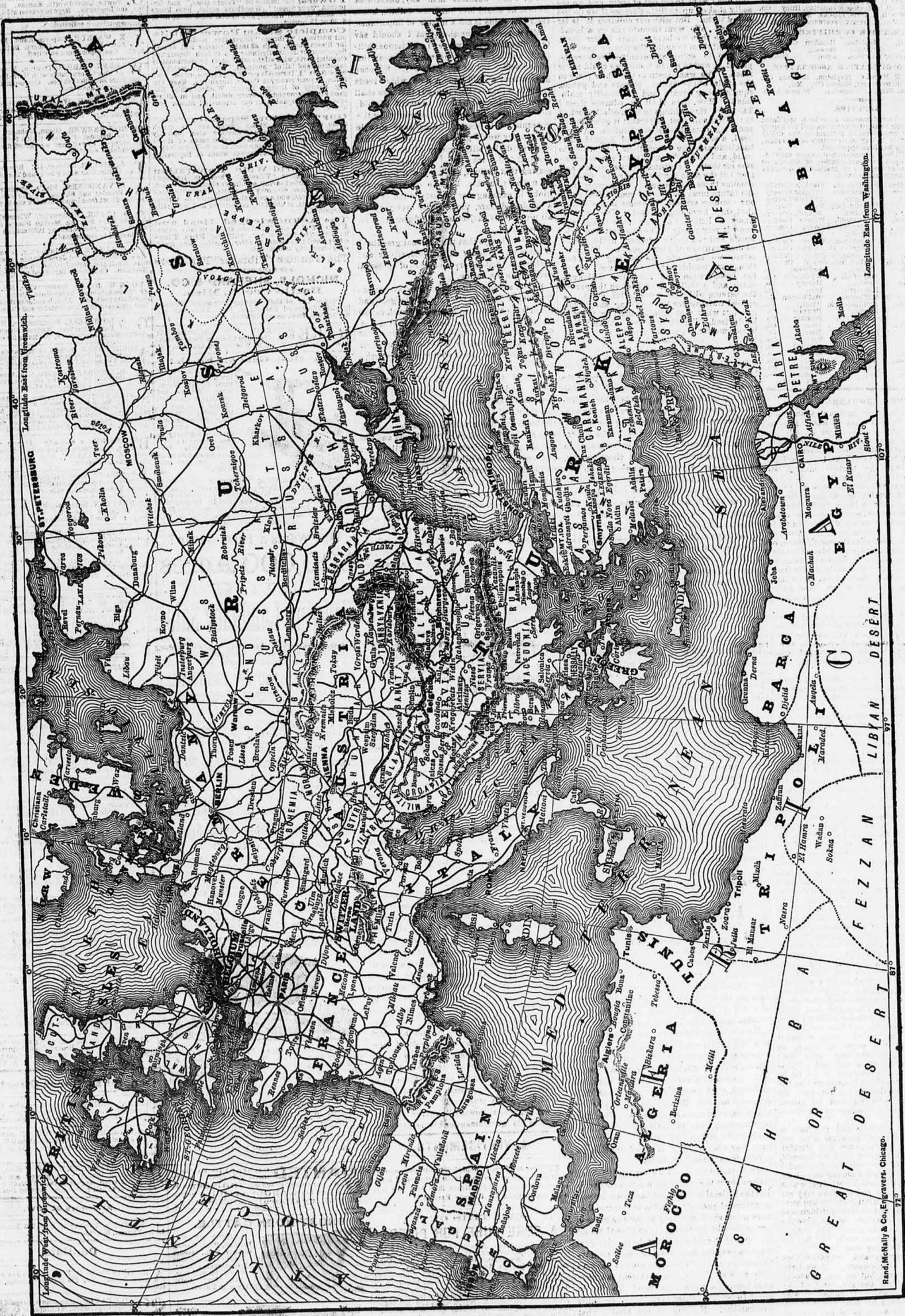
MIAMI COUNTY NURSERY, Lonsburg, Kansas. M. E. F. Caldwell, Prop. Orange Plants, Apple Seedlings and general assortment of Nursery Stock, wholesale and retail.

APPLE SEEDLINGS, Orange Hedge Plants, and a general assortment of Fruit and Ornamental Trees, Vines, Shrubs, etc.

SHERMAN HOUSE. The old reliable Granger's Hotel, opposite the court-house, Emporia, Kan. J. E. Berry and Edging House, North-side of Railway, Florence, Kansas.

D. E. WHITTEMORE, Worcester, Mass., makes a specialty of fine and separate. Warranted satisfactory. Price, 5c. and 10c. each. Sold by Dealers.

\$95 CIGARS. A Month and Expenses. BARRINGER WANTED to sell cigars, 10c. each, 100 for \$9.50. BARRINGER, 100 Olive St., St. Louis, Mo.



EUROPEAN WAR MAP.---Preserve for Future Reference.

Rand, McNally & Co., Engravers, Chicago.

June 6, 1877.

THE CONSOLE OF MERE... Where there is so much rivalry in the manufacture of family medicines...

Wabunsee County. May 29th.—Hoppers are fast disappearing. Corn planting delayed by wet weather...

May Brothers, of Galeburg Illinois, wish to employ young farmers as canvassing agents...

Cash paid for butter at Ewing's, 227 Kansas Avenue, Topeka.

MONEY! MONEY!! If you wish to borrow money upon Real Estate, and get your money without sending paper East...

THE SEASHORE AND WATERING PLACES Of the East become uninviting after frequent visits, but the wonderful scenery of the Rocky Mountains...

Osage Seed Sprouted, and Hedge Plants at cost, by W. H. MANN & Co. Gilman Ill.

EDITOR FARMER:— Please inform Farmers through your columns, that they can always obtain the top of the market in cash...

IN THE SWEET BY-AND-BY. Cannot be but the happy thought as the fortunate recipient of the "ROCKY MOUNTAIN TOURIST"...

That splendid Liverpool Dairy Salt so valuable and necessary in making good butter, is for sale at A. A. Ripley and Sons, Topeka, Kas.

See advertisement of "Farrell & Co., Receipt Book," 37 Broadway, Brooklyn, N. Y. It is sent for 25 cents.

Not disagreeable; hardly more bitter than lager beer, and much more satisfactory and pleasant. Simmons' Liver Regulator can be taken at any time...

HORSE HAY FORK—PATENT INFRINGEMENTS. In the case of A. J. Neills vs. The Ashland Fork Manufacturing Company...

25 Visiting cards with your name printed, 25 Filtration cards, 25 "May I see you Home" cards, one parlor picture printed in 10 colors...

Remember the name: Forepaugh, is pronounced "PAW."

ADVERTISEMENTS.

In answering an Advertisement, send in the column, you will confer a favor by saying you saw it in the KANSAS FARMER.

WONDERFUL, MOST WONDERFUL! A neighbor of ours has been for several years afflicted with Consumption, and for months...

GARDNER, Grady Co., Ill., May 30, 1877. N. B.—This remedy speaks for itself. A single bottle cures Consumption...

CHROMO. In all Frames FREE. Illus. paper 3 months, if you will agree to distribute some of our blanks...

50 MIXED CARDS, with name, for 10c and stamp. One pack (30 style) Acquaintance Cards, 10c. Samples for 3c stamp. M. DOWD & CO., Bristol, Ct.

FOUR TON SCALES. \$90 Including setting up. Further reduction when delivered at shop. A great improvement. Warranted the best scale in use...

6000 AGENTS WANTED. Six new Patents, selling everywhere. Sole agents given. One Agent made \$22.00 in two days...

HOUSEHOLD NECESSITY. A BOOK OF VALUABLE RECIPES, HOUSEHOLD, FAMILY, DOMESTIC, MEDICINAL. PRICE 25 cents. Postage prepaid.

This book contains an INVALUABLE collection of RECIPES needed in every FAH. N. Y. Sample copies by mail. Postpaid for 25c. (No postage stamps taken the same as cash). Address FARKELL & CO. 371 Broadway, Brooklyn, N. Y.

The World will not Permit two Suns THE GREAT FOREPAUGH SHOW! There is only one, and like the glorious orb of day, it sheds its dazzling magnificence throughout the show world...

TOPEKA WEDNESDAY, JUNE 13th. This Great Show is a combination of Menagerie, Museum, Trained Wild Beasts...



More WILD ANIMALS than any 3 of the Largest Menageries in the World! Prominent among which is to be seen the only Male HIPPOPOTAMUS!

6 LEARNED ELEPHANTS! RHINOCEROS! SEA LIONS! Etand, Ostrich, Bears, Crocodiles, Gorilla, Lions, Tigers Kangaroo.

LET THE LADIES AND LITTLE FOLKS SEE IT. There was born on the first of February, 1877, in our Great Menagerie, a BEAUTIFUL BABY ELEPHANT

THE GRAND MUSEUM Exhibits a World of Wonders. All the Mechanical Automata are operated by a magnificent working Model of the Great Corliss Cen. Engine!

THE GIGANTIC DOUBLE CIRCUS! Is composed of the most celebrated Male and Female Performers in Europe and this Country.

Admission to All. 50 Cents. Children under 9 years, 25 Cents. Opens at 1 and 7 P. M. Commences an hour later, RAIN OR SHINE.

Remember the name: Forepaugh, is pronounced "PAW."

ADAM FOREPAUGH, Sole Prop.

SALE OF SHORT HORNS

The Jackson County Live Stock Breeders' Association.

Will sell at Independence, Jackson County, Mo., on June 15th, 1877, at 1 o'clock, p. m., on said day thirty-five head of first-class Short Horns...

There will be a credit of six months given purchasers giving notes with approved security, with ten per cent. from date.

G. W. STUBBLEFIELD & CO. IMPORTERS OF AND DEALERS IN NORMAN-PERCHERON HORSES.



Imported and Grade stock for sale on reasonable terms. Parties wishing to buy will do well to examine our stock before buying elsewhere.

GIDEON BAILEY, Tipton, Cedar Co., Iowa.



BREEDER AND SHIPPER OF PURE BLOODED Poland-China Hogs.

BREEDING STOCK constantly for sale.

Victor Cane Mill and COOK EVAPORATOR. Grand Medal at Centennial Exhibition. Over 44,000 sold.

Cane Growers can't afford to risk Crops with light weak, unfinished mills, liable to break in the midst of the season.

GEM, One-Hole Hand, and "S W E P T A K E R." Two-Hole Hand, or Power, CORN SHELLERS.

CAUTION! To Farmers and all others who put barbs upon wire fences, making a barbed wire fence...

YOU are hereby notified, that in putting barbs upon wire, making a barbed wire fence, or in using or dealing in barbs for wire or barbed fence wire...

NOT Purchase any article until you have our new Catalogue. Great reduction in prices. Free to any address.

MONTGOMERY WARD & CO., Original Grange Supply House 227 & 229 WABASH AVE., CHICAGO.

YOUR NAME PRINTED on 40 Mixed Cards for 10c. CLINTON BROS., CLINTONVILLE, Ct.

FUN 1 copy Curious Love Letter, 1 pk. Comic Cards 1 pk. Popping Question Cards; all for 10c. & stamp. Fun Card Co., Middleboro, Mass.

6 New pieces Sheet Music, retails \$1.75 sent for 10c. & stamp. Chesnut Music Co., Middleboro, Mass.

HIT THE MARK BY BUYING OF E. B. GUILD, Wholesale and Retail Dealer in PIANOS & ORGANS.



Remember the name: Forepaugh, is pronounced "PAW."

1877 RACES 1877

Kansas City Industrial Exposition AND Agricultural Fair Association, ON WEDNESDAY, JULY 4th, 1877. 8800 IN PURSES!

No. 1—2:40 trot, \$350. Mile heats, 3 in 5 to harness—\$125 to first horse, \$75 to second, \$50 to third.

GENERAL CELEBRATION OF THE GROWS. Entries close Monday, July 2d, 1877. Trotting to National Association rules; running to Lexington rules.

REAL ESTATE AND MONEY.

THE STATE OF OREGON Was distinguished at the Centennial Exhibition by more awards for the excellence and variety of its products than comparatively any other State.

OREGON offers great attractions to those in search of new homes, to wit: Healthy and attractive diversity of surface, Grand scenery.

Mild climate. No excessive cold or oppressive heat. Average temperature, summer, 67°, winter 39°.

Soil of unsurpassed fertility, especially suited to cereals, fruits, flax, hops, and hay.

Abundance of good and cheap Government, railroad, and private lands in Oregon.

Good market in Oregon for agricultural products, owing to short transportation to the Pacific Ocean, and direct exportation to all parts of the world.

Oregon has every advantage enjoyed in civilized countries. Liberal laws. Good schools. Moderate taxes. Only nominal State debt.

Eighteen thousand persons emigrated in 1876 from the Eastern and Western States to Oregon.

Most expeditious route to Oregon is by rail to San Francisco, California, and thence to Portland, Oregon, by the direct steamer line, sailing every Saturday morning.

Pamphlets, with maps and full description of Oregon, and all needed advice and assistance, may be had, free of charge, also certificates for reduced rates from San Francisco to Portland, and on the Railroads in Oregon, on application to the

Eastern Office, Oregon State Board of Immigration, Room No. 8, Transcrip Building, Boston, Massachusetts.

KANSAS FARMS AND FREE HOMES.

Kansas display of products at Centennial surpassed all other States. KANSAS PACIFIC R. W. CO. offers largest body of good lands in KANSAS at lowest prices and best terms.

Land! Land! Land! HOMES FOR THE PEOPLE. 350,000 ACRES IN Bourbon, Crawford and Cherokee Co's, KANSAS.

STILL OWNED AND OFFERED FOR SALE BY THE Missouri River, Fort Scott and Gulf Railroad Company

On credit, running through ten years, at seven per cent. annual interest. DISCOUNT FOR CASH IN FULL AT 20 Per cent.

John A. Clark, LAND COMMISSIONER. Fort Scott, Kan.

NATIONAL LOAN & TRUST CO., Topeka, Kansas.

Loans negotiated on improved property, County, Township and School Bonds; also County and Township Warrants bought and sold.

A. A. RIPLEY & SON, Topeka, Kansas, DEALERS IN GROCERIES AND Agricultural Implements.

Selby (or Union) Corn Planter, Described in this paper, Feb. 28th, 1877. Also the NEBRASKA CITY PLOWS, La Harpe Cultivator.

PIERPONT SULKY PLOW. The lightest and strongest Sulky Plow made, all Wrought Iron and Steel.

UNEQUALLED OFFER.

Full Nickel Silver Plated 7 Shot Revolvers as Premiums.

A MONTH'S AMMUNITION FREE. Tramps, Burglars and Thieves infect all parts of the Country. Every One should go Armed.



OUR NEW MODEL LONG RANGE REVOLVER. 47 CALIBER "SWEET-ROCK" \$33

WESTERN GUN WORKS PREMIUM CERTIFICATE. THE WESTERN GUN WORKS TARGET CARTRIDGES FREE!

WESTERN GUN WORKS, 69 Dearborn St., Chicago, Ill.

TOPEKA BANK AND Savings Institution, Topeka, Kansas.

Wanted Immediately—\$50,000 County, School and Township Bonds.

JOHN D. KNOX & CO., BANKERS, Topeka, Kansas.

A General Banking Business Transacted, Money to loan on Real Estate, in any Amount from \$100 upwards.

Land must be free and clear from all incumbrance and title perfect. Parties wanting a loan will please send for a blank form of application.

SCHOOL BONDS. Districts and Townships about to issue Bonds will save time and obtain the best rates by writing direct to us.

"The Best Thing in the West." Atchison, Topeka & Santa Fe Railroad LANDS, In Kansas.

3,000,000 ACRES. Of the best Farming and Agricultural Lands in America, situated in and near the beautiful Cottonwood and Great Arkansas Valleys, the Garden of the West.

FARE REFUNDED to purchasers of land. Circulars, with map, giving full information, sent free. Address: A. S. JOHNSON, Acting Land Commissioner, Topeka, Kansas.

THE OLD, OLD STORY.

BY MARY W. HUDSON. CHAPTER II.

It seemed a trifling incident that Dr. Gray should ride past the Michener mansion and see Lizzie and Dick together; and he had seen them so many a time, they had grown up together, and he knew it was an old family arrangement that they should remain together for life.

own reflections, but after awhile Miss Gray remarked that Miss Parry was a charming young lady. "Do you think so?" said the Dr. "A character not to be compared with Miss Michener's I should think; indeed she impresses me quite unpleasantly; in what way do you consider her charming?"

pectedly he had, he supposed to his father that he believed he should accept the invitation of an old college friend to come to the town of L. and become a partner with him. And so he went away, not far, but away from the cherished plans of the old Dr.; away from a thriving business; away from friends and hope; so far away that he never rode along the green lanes that led to the Michener mansion now.

ASK the recovered dyspeptic, Bilious sufferer, victims of Fever and Ague, the merciful disordered patients how they recovered health cheerful spirits and good appetite—they will tell you by taking SIMMONS' LIVER REGULATOR.

ASK the recovered dyspeptic, Bilious sufferer, victims of Fever and Ague, the merciful disordered patients how they recovered health cheerful spirits and good appetite—they will tell you by taking SIMMONS' LIVER REGULATOR.

THE DINGEE & CONARD CO'S BEAUTIFUL EVER-BLOOMING ROSES. Strongest Plants, suitable for immediate flowering.

The Ladd Patent Gold Watch Cases, In Ladies', Gentlemen's and Boy's Sizes. PRICES REDUCED.

A Special Offer TO THE READERS OF THIS PAPER. A Genuine Swiss Magnetic Time-keeper, perfect Gem for everybody desiring a reliable Time-Piece.

Sewing Machine Needles. Per dozen by mail, 50 cents. Tuckers, Goodrich or any other, \$1.00 each.

A NEW DISCOVERY! Gold and Silver Made By this new invention. It makes happiness and good luck it saves time and labor. It is an economizer of soap, tubs, wash-boards, boilers, stove and fuel.

\$200,000 WORTH OF GOLD PLATED JEWELRY. FOR \$1 WE WILL SEND AS BELOW ALL WARRANTED GOLD PLATED.

EVERY WOMAN'S HOUSE OINTMENT. Colic and Saddle Galls. SCRATCHES, SORE TEATS AND Wounds of Every Description.

\$66 a week in your own town. Terms and \$3 outfit free. H. HALLETT & CO., Portland, Maine.

\$55 to \$77 a Week to Agents. \$10 Outfit Free. Post-paid. J. B. VICKERS, Augusta, Maine.

\$12 a day at home. Agents wanted. Outfit and terms free. TRUE & CO., Augusta, Maine.

\$5 to \$20 per day at home. Samples worth \$1 free. BRIMSON & CO., Portland, Me.

25 FANCY CARDS, all styles, with name, 10 cents. Post-paid. J. B. VICKERS, Augusta, Me., N.Y.

\$5 TO \$10 A DAY TO AGENTS. Sample free, 32-page catalogue. R. L. FLETCHER, 15, Doy St. N. Y.

Best SEEDS Ever grown. Cheapest or will refund. Warranted true & fresh & sent express paid or by mail. Send for Beautiful Free Illustrated Seed Catalogue and Garden Guide & admire hundreds of nice engravings.

NEW DEPARTURE. TRAVELING SALESMAN. STAPLE GOODS. NO PECKING. Salary \$75 a month. Hotel and traveling expenses paid.

\$10 to \$25 a day sure made by Agents selling our Chromos, Crayons, and Reward, Motto, Scripture Text, Transparent, Picture and Chromo Cards. 100 samples, worth \$4, sent postpaid for 75c.

To The Trade. A Choice Collection of Popular Plants for the spring sale of 1917.

Kansas at the Centennial. A few fine Stereoscopic Views of the Kansas and Colorado Building, and the splendid exhibits made by these States at the Centennial, will be sent postage paid to any address for 25 cents each.

Concord Grape Vines. Heavy discounts made from regular list rates, on large orders. Price list of General Nursery Stock, free. Get our figures. Samples sent by express on application.

Cone's Real Estate Register, And History of Wabunsee County, Kansas. Will be ready for distribution about June 1st.

A. WHITCOMB. FLORIST. Lawrence, Kansas. CATALOGUE FREE. SEND FOR IT.

THE LATEST FASHIONS A NEW MILLINERY STORE IN TOPEKA.

Mrs. Whitling has opened a new and stylish millinery store on Kansas ave. at the corner of fifth street in the rooms formerly occupied by the Bank, where she keeps the newest, best and cheapest of everything in the millinery line.

The Old Reliable Millinery Store. Mrs. E. C. Metcalf, KANSAS AVENUE (Nearly opposite the Tent House) TOPEKA.

AGENTS WANTED EVERYWHERE FOR OUR NEW CENTENNIAL PICTORIAL FAMILY BIBLE and Biblical Encyclopedia.

THE OLD, OLD STORY. BY MARY W. HUDSON. CHAPTER II. It seemed a trifling incident that Dr. Gray should ride past the Michener mansion and see Lizzie and Dick together; and he had seen them so many a time, they had grown up together, and he knew it was an old family arrangement that they should remain together for life.

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ASK the recovered dyspeptic, Bilious sufferer, victims of Fever and Ague, the merciful disordered patients how they recovered health cheerful spirits and good appetite—they will tell you by taking SIMMONS' LIVER REGULATOR.

EVERY WOMAN'S HOUSE OINTMENT. Colic and Saddle Galls. SCRATCHES, SORE TEATS AND Wounds of Every Description.

Gayly the troubadour twanged his guitar,
As he was yowling loud, touching the war,
Marching from Kischeneff toward Slobodkie,
Roared up of Iaktschak, high to the sea,
Husch, to the west, was still; Bolgrad was bare;
Kustendj swoon'd at him, Kiliadid glare;
Tartokai raised himself clear from the map;
Jatpitsch, Bent and Pruth purred at his tap;
Loud twanged the troubadour his old guitar;
Bender saluted him, thought him the Cesar;
Kalarasch, Tokschani, Ghengap and Bir,
Hail to geography! lent him their ear.

Farmers begin to feel their oats.
How untidy an untied necktie looks.
Family jars are often caused by jugs.
The drawing-room—the dentist's office,
Even ribbons now a days are two-faced.
Stamp of civilization—the postage stamp.
How is it possible to catch soft water when
it is raining hard?

Although a woman's age is undeniably her
own, she does not own it.

To confide too much is to put your lemons
in another man's squeezer.

There is a way to spell cow with thirteen
letters, thus: See O double you.

The following is the very latest prescription:
"Blue glass, 1 part; faith, 10 parts.
"Give the hens a rest," says an exchange;
Just so; a sort of inter-egg num as it were.

A contemporary says that all sorts of wages
have come down. How about the wages of
sin?

A Saugus girl blandly remarked that she
would rather be a dozen widows than one old
maid. One way to put it.

A wag suggests that a suitable opening for
many choirs would be: "O Lord, have mercy
on us miserable singers?"

Standing on the backs of chairs and white-
washing overhead is what keeps down a su-
perfluity of women in this country; as much as
anything else.

These are the days when the woolen under-
shirt can do more in ten minutes to make a
man hate his neighbor than forty hens can
accomplish in a week.

The most hopeless specimen of imbecility to
be seen these days is a man leaning over a dry-
goods counter, staring helplessly into the eyes
of the unempathizing young woman behind
it, and wondering "what the blazes was the
name of that thing the old woman told me to
get!"

All nervous, exhausting and painful disor-
ders speedily yield to the curative influences of
Pulvermacher's Electric Belts and Bands.
They are safe, simple and effective, and can be
easily applied by the patient himself. Book,
with full particulars, mailed free. Address
Pulvermacher Galvanic Co., Cincinnati, Ohio.

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Mowers and Reapers

These machines are used by the P. of H. throughout
the United States, and are sent to them at wholesale
prices.
Send for descriptive Catalogue and Price List.
GIBBS & STERRETT MFG CO.,
5 South Main Street,
St. Louis, Mo.

DOWN
WITH HIGH PRICES.
CHICAGO SCALE CO.,
68 & 70 W. Monroe St., Chicago Ill.



4-ton Max Scales, \$60; old price, \$160.
All other sizes at a great reduction. All Scales war-
ranted. Send for Circular and Price-list.

CHICAGO
Enamel Paint Works!

White, and All Colors and Shades,
Mixed Ready for the Brush.

This Celebrated Paint is made from strictly pure
White Lead, Metal Zinc, and pure Linseed oil, with
a chemical addition that adds greatly to its

Durability, Beauty and Strength.

It will never rub off. Will cover more surface to
the gallon than the common mixture, and is much
cheaper. This paint is warranted to be more durable
than all lead and oil paint. It has been sold exten-
sively all over the West during the past eight years,
and has given unequalled satisfaction.

Sold by Dealers generally. For Sample Cards of
Colors and Price Lists, address,

A. H. Holden & Co.,
242 Madison Street, CHICAGO.

FUN 1 package comic Envelopes, 1 pk. Comic Cards
pk. Scroll Cards, 24 p. book of Fun; all for 30c
cts. & stamp. Novelty Co., Middleboro, Mass.

EPILEPSY OF FITS absolutely and speedily
cured by the use of Dr. Ross' Epilepsy
Remedy. THE PATENTED
PAGE. Address, ROSS BROTHERS,
No. 414 Main Street, Richmond, Ind.

50 Fine Cards, Damask, Repp Etc., with name on,
18cts. **CLINTON BROS.,** Clintonville, Conn.

25 FANCY CARDS, all styles, with name, 10c.; 25
Transparent Cards, all styles, with name, 20c.; 20
Swiss Motto Cards, 15 styles, with name, 20c.; pre-
paid. J. B. HUBBARD, Nassau, Kenau Co., N. Y.

50 Fine Bristol Cards, 9 titles, with
name, 10c and stamp. F. W. AUSTIN & CO.,
North Haven, Ct.

FUN 1 pk. Acquaintance Cards, 1pk. hdkf. flirtation
1 pk. scroll, all sorts, for 10 cents & stamp.
Fun Card Co., Middleboro, Mass.

Champion Hog Ringer
RINGS & HOLDB.
Only double ring ever invented.
The only ring that will effectively
keep HOGS from rooting. No sharp
points in the nose.
Ringers, 75c. Rings, 50c. 100. Holders, 75c.
CHAMBERS, BERING & QUINLAN,
Exclusive Manufacturers, Decatur, Ill.

Brown's Hog and Pig
RINGER & RINGS.
Only single ring in the market that
closes on the outside of the nose.
No sharp points in the nose to
keep it sore.

PATRONS' PAINT COMPANY.
INGERSOLL'S READY MIXED PAINT AND PARIS GREEN!
50 per cent. saved.
Freight paid on Paints to all parts of the country. Our book, How every man can paint, mailed
free upon application to the **Patrons' Paint Company, 259 Front St., New York.**
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J. W. English & Bro.,
WHOLESALE DEALERS IN
Reaper and Mower Knives,
MOWER AND REAPER SECTIONS,
KNIFE and SICKLE HEADS,
Guard and Section Rivets, Brass Pitman
Boxes, Thresher Spikes,
Patent Safety Couplings, Rabbitt Metal,
Rubber and Leather Belting.
1227 Union Avenue, Near Union Depot,
Kansas City, Missouri.
WRITE FOR PRICE LIST AND DISCOUNTS.

GOOLMAN'S
Improved Standard Scales,
PATENTED MAY 23d, 1874.—MANUFACTURED BY
The Goolman Company,
Corner of Walnut and 20th Streets, KANSAS CITY, MO.
ALL KINDS OF CASTINGS MADE TO ORDER AND SCALES REPAIRED.
These Scales are superior in workmanship, accuracy, and durability, weighing from one pound to full
capacity of the scale, with the utmost precision, and will be sold on as good terms as any good scale.
We also manufacture Goolman's Folding and Stationary Top SCHOOL DESKS, and Warrant the
same to be the strongest and most convenient yet offered to the Western people.
The Goolman Co.
Address for Circulars and lowest terms.

Trumbull, Reynolds & Allen's
AGRICULTURAL HOUSE,
419, 421 and 423 Walnut Street,
Kansas City, Missouri!

The New Departure (Tongless) Cultivator.
In our Agricultural Implement Department will be found none but the
Latest Improved, Highest Grade, Best Made Farm Machinery
in the Market.
We are the Western Depot for the Canton Clipper Plows, Parlin Cultivator, Canton
Vibrating Harrow, Cole's Stalk Cutter, New Departure (Tongless) Cultivator,
Canton Sulky Plow (warranted the best in market), Selby Corn Planter, Chal-
lenge Corn Drill, Champion Reaper and Mower, Van Osdel's Hedge Trim-
mer, the Aultman and Taylor Thresher, the Taylor and Dayton Sulky
Hay Rakes, Huber Revolving Rake, Superior Grain Drill, Big
Giant Corn Mill, Sandwich Corn Shellers, etc., etc.

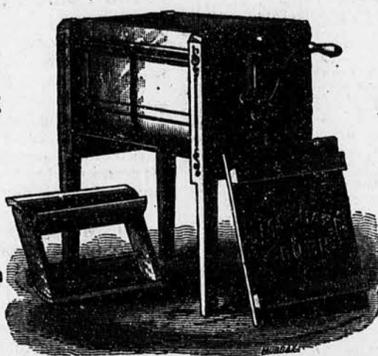
In Our Wagon and Carriage Department,
Will be found the Studebaker Farm Wagon, and Good Strong Serviceable Spring Wagons, Buggies and Car-
riages of every description; we keep no shoddy spring work. Have adopted as our platform, on all of
our work the best Wheel, best Spring, best Axle, that can be procured, (let prices be graded by the
finish), so that whoever gets a job of spring work of us can have the assurance that it will be of lasting
service to them.

In our Seed Department,
Will be found none but Pure, Fresh, Field, Garden, and Flower Seeds.
We use great care in purchasing our Field Seeds only of responsible parties, and having our Garden Seeds
grown for us by some of the best growers in the country, seeds especially adapted to this climate. We
study the wants of the farmers of the new West, and those who have been procuring their seeds of us, or
our seeds through their merchants, testify to the fact of having the best success in raising crops they ever had.
We take pains to furnish only the best of everything and more for the money than any other Agricultural
House in the West, and our customers can have the assurance and the warranty that when they get anything
from us, or from their merchants who keep our goods, from either department, that none can be better.
Don't be satisfied with any other line of Goods, inquire for them in every
instance, and if your merchant does not keep them send us direct.
Send for our handsome illustrated Catalogue containing description and prices of goods in each depart-
ment, and replete with useful information. Address
TRUMBULL, REYNOLDS & ALLEN,
Kansas City, Mo.

DEERE, MANSUR & Co.,
—GENERAL DEALERS IN ALL KINDS OF—
FARM MACHINERY,
KANSAS CITY, MO.

We call the especial attention of Farmers to our line of strictly Stan-
dard and fully Warranted Goods adapted to their wants. With extensive
establishments in Kansas City and St. Louis, and direct connection with
the largest Plow Factory in the World, we are justified in asserting that
our facilities for Manufacturing and Selling the best articles at low prices
are unequalled in the West. We respectfully solicit your trade and will
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some Diary and Pocket Book, replete with valuable information.

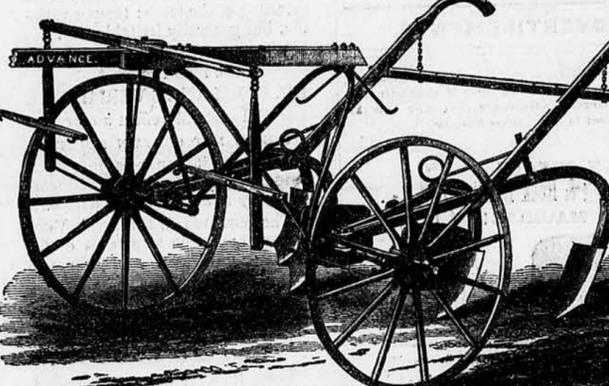
The Blanchard Churn!
Made and Used
—FOR—
TWENTY-FIVE
YEARS,
And Endorsed
—BY THE—
Leading
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COUNTRY.



Has no
Cog Wheels
Or Gearing,
And Cannot Get
Out of Order.
Works Out
BUTTERMILK
And Works In
SALT
Without Change of
DASHER.

A PERFECT AUTOMATIC BUTTER MAKER.
Every Churn warranted not to crack or shrink in any climate. Full descriptive circular sent on appli-
cation. Churns for sale by all responsible dealers.

100,000 IN USE!



The Advance Walking Cultivator
—MANUFACTURED BY—
DEERE & COMPANY, Moline, Illinois.
Admitted, Everywhere Introduced, to be the Best Cultivator Made!
Awarded the FIRST PRIZES at every field trial by the Iowa State Fairs for six successive year
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Points of Excellence which make it Superior to any Other:
ITS HEIGHT OF AXLE, clearing the tallest corn.
SINGLE TONGUE, affording best facility in turning.
STRENGTH OF FRAME, being Double-Arched and of Wrought Iron.
WROUGHT IRON AND STEEL, COUPLINGS never fail.
IMPROVED SAFETY BREAK-PIN and Varied Adjustability of Shovels.
In all the above important features the ADVANCE is superior to any other cultivator. It is the
MOST ECONOMICAL to the farmer because of its strength and durability; and the MOST SATIS-
FACTORY because of the superior quality of its work, and ease of control. It has worked its way to
its advanced position in the hands of 100,000 farmers; and the well-confirmed conclusion of all
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The Advance has No Equal.

We invite farmers to examine it carefully in the hands of responsible dealers, and to buy none till
you have seen the Advance.

With
TWENTY
OIL TEMPERED
Spring Steel
Teeth.



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BOY OR GIRL
TEN YEARS OLD
Can Work It
Easily.

The "Coates" Lock Lever Sulky Rake.
The favorite Rake in Kansas, and outsells all others, as we are prepared to prove by the figures. We have
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