

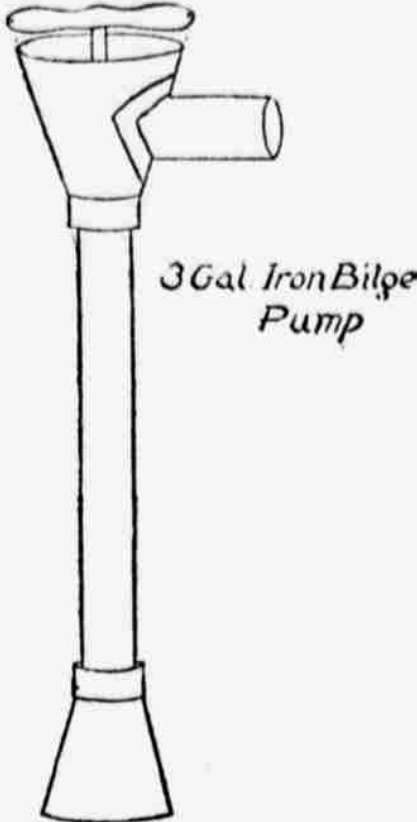
# FARM AND GARDEN

## LIQUID MANURE IN CISTERN

Device Made of Galvanized Iron, with Leather Valves and Sucker Will Remove It.

A practical method of removing liquid manure from a cistern is given by Charles Metcalf of Pennsylvania, in Hoard's Dairyman. He says: I use a three-inch galvanized iron bilge pump with leather valves and leather sucker; the pump can be had in any length desired. Mine is five feet long and weighs about ten pounds.

This style of pump will handle such solid matter as may wash into the cistern without trouble. For distributing, use a tank or barrel with two-inch pipe outlet, as per sketch attached, which tank may be used on



3 Gal Iron Bilge Pump

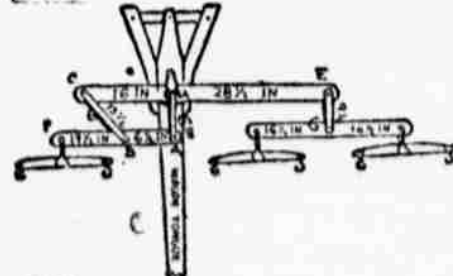
The Pump.

any kind of a vehicle, with spreading pipe extending full width of tread of wagon, or wider if desired. Regulate amount to be put on ground by the valve. I have marked the sketch plug valve, as this is the easiest kind of valve to clean, should it become clogged.

With an outfit of this kind, two men pumped and distributed 300 gallons of liquid manure in about two hours and a half, taking the same about one-fourth mile to field. Take the pump out of the cistern when not in use and wash it out.

## EVENER FOR WAGON TONGUE

A strap-iron 6 1/2 inches long from wagon hammer to bolt in tongue. Bolt goes through tongue, strap-iron and short doubletree. Bolt is 6 1/2 inches



For Machine or Wagon.

long. B, two strap-irons 13 1/2 inches long with 3-inch bolts in each end. G, two strap-irons 9 1/2 inches long. Distance from A to B, 6 inches; from C to center of tongue, 16 inches; from center of tongue to E, 28 1/2 inches; from B to F, 19 1/2 inches; A to A, 6 inches.

## USEFUL NOTES.

Cheap seed is often the most expensive. The number of cows milked daily in the United States is estimated at 21,000,000. Bonemeal is excellent for vines and fruit trees, and three or four ounces may be applied to the square yard. A hard crust over the soil prevents the rain and heat from entering. Always keep the surface of the soil loose. The garden should be near the house and surrounded with a good woven wire netting fence to keep out fowls and other garden pests. If the garden must of necessity be on a stiff, clayey soil, mix all the ashes and sand obtainable with it; they will mellow it up wonderfully. Soot is a good and safe fertilizer for nearly everything, and scattered around the stems of plants, making the soil black, acts in the first place as a slug antidote and in the next as a plant food. Probably no class of people suffer more from rheumatism than farmers, and yet the remedy for this dreadful disease is, or should be, right at hand. If celery were eaten freely sufferers from rheumatism would be comparatively few.

## PROPER FEEDS FOR THE SOIL

Some Plain and Interesting Figures Relating to the Removal of Plant and Effects.

(By Prof. Cyril G. Hopkins, University of Illinois.)

In a three-year rotation of corn, oats and clover, let us assume yields of 100 bushels per acre of corn and oats, four tons of clover and four bushels of clover seed.

We may now compare in the corn the last cultivation and possibly produce a catch crop of one-half ton to the acre.

We will plan to husk the ear corn and leave the stalks on the land to be disked down for seeding oats and clover.

The oats should be cut as high as possible and the threshed oat straw should be spread over the land either before or after rotting, as may be found best.

The third year the clover may be clipped perhaps two weeks before haying and left lying on the land, the second crop being harvested later for seed, using a buncher attached to the mower so as to avoid raking.

The threshed clover straw should be spread over the land, and if rock phosphate is used it may be applied and plowed under with all of the accumulated organic matter in preparation for the following corn crop which would begin the second rotation.

These three crops removed about 173 pounds of nitrogen, while the clover and cowpeas returned about 182 pounds of nitrogen and, together with the cornstalks and oat straw, furnished a large supply of humus.

This is a system of grain farming planned to maintain the supply of humus and nitrogen.

If the yields are cut in two the basis of the system remains the same.

Many other rotations for grain farming might be followed, but in all cases liberal use must be made of legume crops, catch crops, other green manure crops and crop residues in order to supply humus and nitrogen.

In live stock farming take a five-year rotation, including corn two years, oats with clover and timothy seeding the third year, and two years of clover and timothy, using one year for hay and the other for pasture, assuming the same yields as before.

Shock one-half of the corn or put it in the silo; husk the other half and use the oat straw for feeding and bedding.

The four crops will remove from the soil about 369 pounds of nitrogen and the clover hay will contain about 120 pounds, which we assume was secured from the air, making 489 pounds of nitrogen in the total feed and bedding.

If one-half of this is recovered in the manure and returned to the land there would be a deficiency of 124 pounds.

But two-thirds of the nitrogen can be recovered by feeding upon cement floors and a liberal use of straw and shredded fodder for bedding, thus reducing the deficiency to 43 pounds.

The pasturing may gain 12 pounds of nitrogen. By feeding more or less upon the fields and by leaving considerable clover in the pasture to serve as green manure this small deficiency can be replaced, but to maintain or increase the supply of humus and nitrogen in the soil is by no means an easy problem, even with live stock farming.

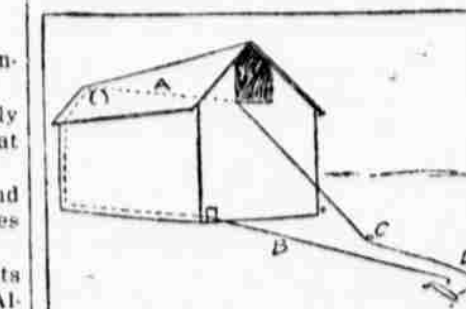
Keep in mind these two words, phosphorus and humus. If these are increased in the soil the farm will be growing richer and more productive, but whoever removes the phosphorus or destroys the humus more rapidly than they are replaced will have poorer land year by year with poverty as the only future for the children who continue the same ruinous system.

A 100-bushel crop of corn requires 23 pounds of phosphorus; a 50-bushel crop of wheat, 16 pounds; a 4-ton crop of clover, 20 pounds.

## ARRANGEMENT FOR HAY FORK

Illustration Showing How Horses Pull Back Carrier and Fork in Pulling Hay in.

The horses pull back the hay carrier and fork in putting hay in barn. A is the trip rope which is long enough to reach as far as the horses go in pulling up the load and fastens in the doubletree with the other rope B by



Illustrating the Method.

which the horses pull up the load. C is a pulley staked a short distance away from barn so as to keep the fork in reach of load when the fork is returned. D is another pulley, which should be staked as far away from barn as team goes. When load is being drawn up the trip rope is slack and is drawn into barn again by carrier and when load has been delivered the team turns around and returns the fork.

## Gather the Dry Leaves.

Every year, about November 1, there comes a day or two when the newly fallen leaves are dry. Then is the time to drop everything and pack every bag full, stamped in with the foot, for bedding. They cost nothing, and make fine manure.

# Paul a Prisoner - In Rome

Sunday School Lesson for Nov. 14, 1909

Specially Arranged for This Paper

LESSON TEXT.—Acts 21. Memory Verse 25, 26.

GOLDEN TEXT.—"Horsin do I exercise myself, to have always a conscience void of offense toward God, and toward men."

—Acts 24:16.

TIME.—Spring of A. D. 57 or 58, and the two succeeding years.

PLACE.—Caesarea on the Mediterranean, the Roman capital of Judaea.

**Suggestion and Practical Thought.** Closing Scenes in Saint Paul's Life. I. The Journey Toward Rome by Sea from Malta.—Vs. 11-14. In our last lesson we saw Paul and his companions ministering to the sick in Malta, and receiving many honors from the grateful inhabitants. They had lost everything in the wreck, and were in need of many things.

Early in the spring they embarked in another ship from Egypt, named the Dioscouri, or The Twin Brothers or Castor and Pollux who were the twin brothers.

The First Landing was made at Syracuse, the capital of Sicily, 80 to 100 miles sail from Malta. Here they remained three days. From Syracuse they made a wide circuit, which required frequent tacking or alteration of the ship's course on account of head winds, and "by good seamanship" were able to work up to Rhegium.

The Third Landing was at Puteoli, the seaport of Rome, though 150 miles away.

Here they remained seven days. II. The Journey by Land, and the Reception by the Roman Christians.—Vs. 15-22. First. From Puteoli they marched 33 miles before they reached the famous Appian Way, the great military road from Rome to southern Italy.

Fifty-seven miles farther along this road they came to Appii Forum, i. e., the Market of Appius.

Here the first delegation of Roman Christians met Paul and welcomed him to the city.

Second. Three Taverns. (V. 15) "And the three taverns," thirteen miles beyond Appii Forum, on the Appian Way, and 30 miles from Rome. Here a second delegation met Paul and his companions.

"Whom when Paul saw, he thanked God, and took courage." The words imply that Paul had been depressed in spirit.

Paul Encouraged. When Paul was met and greeted by the Christians of Rome, his heart was lifted out of its depression.

Reception at Rome. Paul was delivered to the authorities at Rome, but (v. 16) he "was suffered (permitted) to dwell by himself" "in his own hired house" "with a soldier that kept him."

III. Paul's Life and Work at Rome.—Vs. 23-31. First. Paul's Work Through the Soldiers. The soldiers which guarded Paul were "from the imperial guard," the flower of the Roman army.

Second. His Work Among the Jews. By mutual arrangement on an appointed day the Jews came to his lodging, and Paul expounded the gospel of the kingdom. (v. 23) "persuading them concerning Jesus" out of the Scriptures acknowledged by all as true.

26. "Hearing ye shall hear, and shall not understand." They should hear the words with the outward organs of hearing, but they would not understand the real meaning and power of the words. "And seeing ye shall see, and not perceive."

27. "Their eyes have they closed." They themselves refused to hear and see, because they were unwilling to make the change in their lives which would be required. "And should be converted," "should turn round, and go back again," as God was anxious they should. "And I should heal them," of their sin and dullness and disobedience. They did not wish to be healed.

Third. His Work Among the Gentiles. 30. For "two whole years," Paul received all who came to "his own hired house."

31. "Preaching the kingdom of God," its truths revealed, its motives, its righteousness, its usefulness, its hopes, its immortal life, all of which come through the Lord Jesus Christ the everlasting Saviour, the Son of God and the Son of Man.

Fourth. Work; Epistles to the Churches. Four epistles, those to Philemon, Ephesians, Colossians, and the Philippian were probably written during this captivity: Titus and 1 Timothy after his release, and 2 Timothy during his second imprisonment, not long before his martyrdom.

After several years of effective labor, Paul was again apprehended, and brought a second time as a prisoner to Rome. Tradition places his imprisonment in the dungeon of the Mamertine prison. "This was the Bastille of the old world." Here Jugurtha, the African king who warred against Rome, starved to death (B. C. 104).

The Acts were probably completed at this time.

IV. The Closing Years of Paul's Life. The Acts closes with the two years of Paul's imprisonment. But it is generally believed that his death was several years later. Eusebius the historian (A. D. 264-349) states the common belief of the early churches in these words: "After defending himself successfully it is currently reported that the apostle again went forth to proclaim the gospel, and afterward, came to Rome a second time and was martyred under Nero."

## A LITTLE COLD.

He caught a little cold— That was all. (Puck)

So the neighbors sadly said, As they gathered round his bed, When they heard that he was dead.

He caught a little cold— That was all. (Puck)

Neglect of a cough or cold often leads to serious trouble. To break up a cold in twenty-four hours and cure any cough that is curable mix two ounces of Glycerine, a half-ounce of Virgin Oil of Pine compound pure and eight ounces of pure Whisky. Take a teaspoonful every four hours. You can buy these at any good drug store and easily mix them in a large bottle.

## REPENTANCE CAME TOO LATE

Small Boy Had Taken Drastic Action to Avoid Being Invited to Party.

A small boy had something to say to his father at the dinner table the other night, says the Philadelphia Record. "Papa," he said, "Johnnie Burton is going to have a party next week, an' he said he'd invite me. An' I got to take a present." "A present? What's that for?" "It's for Johnny's birthday. All the kids take presents." "Things hadn't gone just right during the day with the boy's father. He was not in an agreeable humor. "That's all nonsense," he declared. "Every day or two it's a present here or a present there. If you can't go to a party without taking a present you might as well stay at home." The boy's lip trembled, but he made no reply. The next day the father regretted his hasty words and that night turned to the boy. "George," he said, "there are a couple of new books in my overcoat pocket. You can take them to your friend Johnny's party." "It's too late," said George, gloomily. "I liked him to-day so that he wouldn't invite me."

## ANOTHER IMPORTANT VICTORY FOR THE CARTER MEDICINE COMPANY IN THE UNITED STATES COURT.

The United States Circuit Court for the Southern District of New York—sitting in New York City—has just awarded to the Carter Medicine Company a decree which again sustains the company's exclusive right to use the red package for liver pills.

By the terms of the decree, it is, among other things:

Adjudged that the Carter Medicine Company is the owner of the sole and exclusive right to the use of red colored wrappers and labels upon said small, round packages of liver pills of the style described in the bill of complaint; said right having been acquired by the prior adoption of said style and color of package for liver pills by the complainant predecessors more than thirty years ago, and established by the continuous and exclusive use of the same in constantly increasing quantities by said predecessors and by the complainant, the Carter Medicine Company, itself, from the time of their said adoption until the present day.

The decision just announced is perhaps the most important and far-reaching of all, by reason of the character of the tribunal which rendered it. No Court in the country stands higher.

—National Druggist, St. Louis, Mo.

For Consideration.

All pertinent facts must be considered when you are dealing with the great problem of prosperity. Would you put the plus or minus sign before the item that the county jail has a great falling off in patronage?—Detroit Free Press.

Important to Mothers.

Examine carefully every bottle of CASTORIA, a safe and sure remedy for infants and children, and see that it bears the Signature of *Chas. H. Fletcher*

In Use For Over 30 Years. The Kind You Have Always Bought.

Some people's cast-off happiness, like their cast-off clothes, would make some other people very happy.

PERRY DAVIS' PAIN-KILLER has no substitute. No other remedy is so effective for rheumatism, neuralgia, sciatica, or cold of any sort. Put up in 25c, 50c and 100c bottles.

Happiness is increased, not by the enlargement of the possessions, but of the heart.—Ruskin.

It's the judgment of many smokers that Lewis' Single Binder 5c cigar equals in quality most 10c cigars.

Some people are more afraid of germs than they are of a mad dog.

Now and again you see two women passing down the street who look like sisters. You are astonished to learn that they are mother and daughter, and you realize that a woman at forty or forty-five ought to be at her finest and fairest. Why isn't it so?

The general health of woman is so intimately associated with the local health of the essentially feminine organs that there can be no red cheeks and round form where there is female weakness.

Women who have suffered from this trouble have found prompt relief and cure in the use of Dr. Pierce's Favorite Prescription. It gives vigor and vitality to the organs of womanhood. It clears the complexion, brightens the eyes and reddens the cheeks.

No alcohol, or habit-forming drugs is contained in "Favorite Prescription." Any sick woman may consult Dr. Pierce by letter, free. Every letter is held as sacredly confidential, and answered in a plain envelope. Address: World's Dispensary Medical Association, Dr. R. V. Pierce, Pres., Buffalo, N. Y.

Not Sisters

Now and again you see two women passing down the street who look like sisters. You are astonished to learn that they are mother and daughter, and you realize that a woman at forty or forty-five ought to be at her finest and fairest. Why isn't it so?

The general health of woman is so intimately associated with the local health of the essentially feminine organs that there can be no red cheeks and round form where there is female weakness.

Women who have suffered from this trouble have found prompt relief and cure in the use of Dr. Pierce's Favorite Prescription. It gives vigor and vitality to the organs of womanhood. It clears the complexion, brightens the eyes and reddens the cheeks.

No alcohol, or habit-forming drugs is contained in "Favorite Prescription." Any sick woman may consult Dr. Pierce by letter, free. Every letter is held as sacredly confidential, and answered in a plain envelope. Address: World's Dispensary Medical Association, Dr. R. V. Pierce, Pres., Buffalo, N. Y.

Now and again you see two women passing down the street who look like sisters. You are astonished to learn that they are mother and daughter, and you realize that a woman at forty or forty-five ought to be at her finest and fairest. Why isn't it so?

The general health of woman is so intimately associated with the local health of the essentially feminine organs that there can be no red cheeks and round form where there is female weakness.

Women who have suffered from this trouble have found prompt relief and cure in the use of Dr. Pierce's Favorite Prescription. It gives vigor and vitality to the organs of womanhood. It clears the complexion, brightens the eyes and reddens the cheeks.

No alcohol, or habit-forming drugs is contained in "Favorite Prescription." Any sick woman may consult Dr. Pierce by letter, free. Every letter is held as sacredly confidential, and answered in a plain envelope. Address: World's Dispensary Medical Association, Dr. R. V. Pierce, Pres., Buffalo, N. Y.

# Women Who Suffer

from woman's ailments are invited to write to the names and addresses here given, for positive proof that Lydia E. Pinkham's Vegetable Compound does cure female ills.

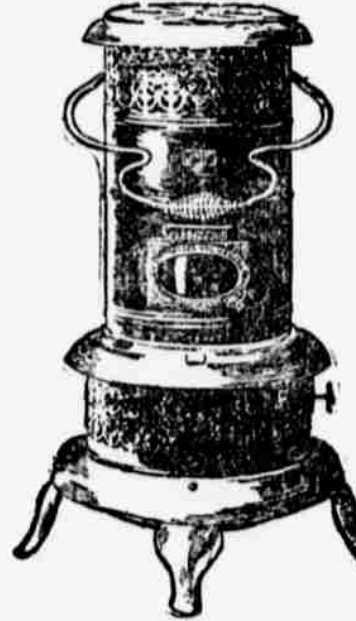
- Chicago, Ill.—Mrs. Avena Spurling, 11 Langdon Street.  
 Lindley, Ind.—Mrs. May Fry.  
 Kinsey, Kans.—Mrs. Stella Gifford Benman.  
 Scott, N. Y.—Mrs. S. J. Barber.  
 Cortlandtville, N. Y.—Mrs. Wm. Broughton.  
 Cincinnati, O.—Mrs. W. R. Housh, Eastview Av.  
 Milwaukee, Wis.—Mrs. Emma Inuse, 633 1st St., German.  
 Change of Life.  
 South Bend, Ind.—Mrs. Fred Certia, 1014 S. Lafayette Street.  
 Brooklyn, Mo.—Mrs. Lizzie Holland.  
 Noah, Kentucky.—Mrs. Sarah Louisa, 297 S. Market St.  
 Paterson, N. J.—Mrs. Wm. Somerville, 176 Hamburg Avenue.  
 Philadelphia, Pa.—Mrs. K. E. Garrett, 247 North Garret Street.  
 Kewaskum, Wis.—Mrs. Carl Dahlke.  
 Maternity Troubles.  
 Worcester, Mass.—Mrs. Dosliva Coté, 117 Southgate Street.  
 Indianapolis, Ind.—Mrs. A. P. Anderson, 1307 E. Pratt Street.  
 Big Run, Pa.—Mrs. W. E. Pooler.  
 Awater Station, O.—Mrs. Anton Muelhaupt.  
 Cincinnati, Ohio.—Mrs. E. H. Madlocke, 2143 Gilbert Avenue.  
 Mogadore, Ohio.—Mrs. Lee Mangos, Box 131.  
 Cortsville, N. Y.—Mrs. A. A. Gilbe.  
 Johnstown, N. Y.—Mrs. Homer N. Seaman, 108 E. Main Street.  
 Burlington, Ill.—Mrs. Peter Langenbahn.  
 Avoid Operations.  
 Hampstead, Md.—Mrs. Jos. H. Dandy.  
 Adrian, Ga.—Mrs. Lena V. Henry, Route No. 3.  
 Indianapolis, Ind.—Mrs. Dossie V. Piper, 29 South Allison Street.  
 Louisville, Ky.—Mrs. Sam Lee, 3023 Fourth St.  
 West, West Harbor, Maine.—Mrs. Lillian Gobbins, Mt. Desert Light Station.  
 Detroit, Mich.—Mrs. Frieda Roemann, 644 Meldrum Avenue, German.  
 Organic Displacements.  
 Moler, Ill.—Mrs. Mary Hall.  
 Elgin, Ind.—Mrs. Eliza Wood, R. F. D. No. 4.  
 Melbourne, Iowa.—Mrs. Clara Waterman, R. F. D. No. 1.  
 Bardonia, Ky.—Mrs. Joseph Hall.  
 Lewistown, Maine.—Mrs. Henry Cloutier, 56 Oxford Street.  
 Minneapolis, Minn.—Mrs. John G. Moldan, 2115 Second Street, N.  
 Shannock, Mo.—Mrs. Josie Ham, R. F. D. No. 1.  
 Box 22.  
 Marlton, N. J.—Mrs. Geo. Jordy, Route No. 3, Box 49.  
 Chester, Ark.—Mrs. Ella Wood.  
 Oella, Ga.—Mrs. F. A. Cribb.  
 Pendleton, Ind.—Mrs. May Marshall, R. R. 44.  
 Cambridge, Neb.—Mrs. Nellie Moslander.  
 Painesville, Ohio.—Mrs. Chas. Barclay, R. F. D. No. 3.  
 Pecos, Texas.—Mrs. Ada Young Eggleston.  
 Grantville, N. Y.—Mrs. Chas. Barclay, R. F. D. No. 3.  
 These women are only a few of thousands of living witnesses of the power of Lydia E. Pinkham's Vegetable Compound to cure female diseases. Not one of these women ever received compensation in any form for the use of their names in this advertisement—but are willing that we should refer to them because of the good they may do other suffering women to prove that Lydia E. Pinkham's Vegetable Compound is a reliable and honest medicine, and that the statements made in our advertisements regarding its merit are the truth and nothing but the truth.

# Difference That Ten Minutes Make

From 35 degrees to 70 degrees—from an unbearable cold to a glowing heat that contributes the cheery comfort you want in your home is the difference that can be made in 10 minutes when you have the

## PERFECTION Oil Heater

(Equipped with Smokeless Device) to do your heating. It is unrivaled for quick work—and effective, cleanly work.



Impossible to turn the wick too high or too low—impossible to make it smoke or emit disagreeable odor—the self-locking

## Automatic Smokeless Device

absolutely prevents smoke. Lighted in a second—cleaned in a minute—burns Nine Hours with one filling. Rustless brass front. Automatic smokeless device instantly removed for cleaning. Highest efficiency in heating power—Beautifully finished in Japan or Nickel—an ornament anywhere—a necessity everywhere. Variety of styles.

Every Dealer Everywhere. If Not At Yours, Write for Descriptive Circular to the Nearest Agency of the

## STANDARD OIL COMPANY (Incorporated)

The spirits fall to materialize at a temperance seance.

Mrs. Winslow's Soothing Syrup. For children teething, softens the gums, reduces inflammation, allays pain, cures wind colic. 25c a bottle.

Many a man suspects his neighbor as he suspects himself.

## Millions Say So

When millions of people use for years a medicine it proves its merit. People who know CASCARETS' value buy over a million boxes a month. It's the biggest seller because it is the best bowel and liver medicine ever made. No matter what you're using, just try CASCARETS once—you'll see.

CASCARETS is a box for a week's treatment at drugists. Biggest seller in the world. Million boxes a month.

## Paper-Hangers & Painters

You can greatly increase your business with no extra investment by selling Alfred Pears' Paper Hanger. We want one good worker in each vicinity and to the first worthy applicant will send FREE, by prepaid express, the large sample books showing a \$350,000.00 Wallpaper Stock for customers to select from. We offer liberal profits to our representatives. Answer quickly that you may get the agency in your vicinity for 1910. Alfred Pears Co., 141-143 Wabash Ave., Chicago.

## PARKER'S HAIR BALSAM

Defiance Starch. Perfect for work with and starches outside nicest. If afflicted with Thompson's Eye Water. W. N. U. LIN.

# HAMLIN'S WIZARD OIL GREAT FOR PAIN