Grove's

is the Genuine and Only

Laxative Bromo Quinine tablets

The first and original Cold and Grip tablet, the merit of which is recognized by all civilized nations.

Be careful to avoid imitations.

Be sure its Bromo

Q

E. W. Grove

The genuine bears this signature

30c.

The nation is worth nothing which does not joyfully stake all on its honor.

Dr. Peery's "Dead Shot" is powerful but safe. One dose is enough to expel Worms or Tapeworm. No castor oil necessary.—Adv.

He doubts nothing who knows nothing.—Portuguese proverb.

IN YE OLDEN TIME

Hoop skirts were worn by those who first asked the druggist for, and insisted on having, the genuine Golden Medical Discovery put up by Dr. Pierce over fifty years ago. Dress has changed very much since then! But Dr. Pierce's medicines contain the same dependable ingredients. They are standard today just as they were fifty years ago.

Dr. Pierce's Golden Medical Discovery for the stomach and blood cannot be surpassed by any remedy today.

Dr. Pierce's Favorite Prescription for weak women has never been equalled for the distressing complaints incident to womanhood. What others say:

DEANYVILLE, ARK.—"I have used Dr. Pierce's Golden Medical Discovery and also the 'Favorite Prescription' with good results. I am now in better health than I have been in two years. Dr. Pierce's medicines are all they are claimed to be."—MRS. BESSIE SLAGLE.

Send 10 cents to Dr. Pierce's Invalids' Hotel in Buffalo, N. Y., for trial package of any of his medicines.

"My Baby Suffered Constant Pain from Intestinal Indigestion"

"But Ware's Baby Powder brought prompt and lasting relief" writes Shreveport man.

"Eight years ago my baby boy of three months was in constant pain, crying continuously, suffering from intestinal indigestion. After spending $750 with doctors, I tried Ware's Baby Powder and in 48 hours my baby was relieved and in a few days entirely well. I have since recommended it many times, and in each case relief has been found."

This is what Geo. W. Thomas of Shreveport says about Ware's Baby Powder—the remedy that has been relieving stomach and bowel trouble, teething and summer complaint in babies for forty years. Simple and harmless. Given to babies in liquid form, mixed with sugar and water, they love to take it. 60c and $1.20 the package at all druggists.

THE WARE CHEMICAL CO., Dallas.

PARKER'S HAIR BALSAM

Removes Dandruff-Stops Hair Falling

Restores Color and Beauty to Gray and Faded Hair

60c. and $1.00 at Druggists.

Hiscox Chem. Wks. Patchogue, N. Y.

HINDERCORNS Removes Corns, Callouses, etc., stops all pain, ensures comfort to the feet, makes walking easy. 15c. by mail or at Druggists. Hiscox Chemical Works, Patchogue, N. Y.

Comfort Your Skin With Cuticura Soap and Fragrant Talcum

Soap 25c, Ointment 25 and 50c, Talcum 25c.

Sure Relief From Catarrh.

Medicated air is the only treatment for catarrh. Breathe Hyomei and obtain immediate relief. At druggists. Money back if it fails.

A Bad Cough

If neglected, often leads to serious trouble. Safeguard your health, relieve your distress and soothe your irritated throat by taking

PISO'S

ARTIFICIAL DAY FAVORED BY HEN

Poultry Flock Given More Time for Eating and Exercising During Winter Season.

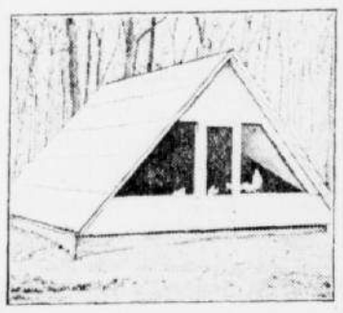
INCREASES EGG PRODUCTION

Many Farmers Find it Profitable to Illuminate Houses for Several Hours Each Day to Encourage the Pullets.

Domestic fowls originated in the tropics where the days and nights are of about equal length. As a result of this, the reproductive and digestive systems of the hen are developed to fit the environment of a 12 hour day and a 12-hour night. For this reason she is somewhat like an alarm clock, except that she must be wound up about every 12 hours instead of every 24. In the winter in the North, her digestive system strikes at about 3 or 4 o'clock in the morning. As she is unable to locate food in the dark she has no alternative but to wait until daylight or until the caretaker gets around to feed her.

Habits, Not Nature, Changed.

Up in the north-temperate zone



Large A-Shaped Coop Used by Government Poultry Farm in Artificial Lighting Experiments.

where during the fall and winter the nights are from 13 to 15 hours long the transplanted domestic fowl from the tropics has changed her habits but not her nature. During this time she takes her vacation when she has the least to eat and to do. This is from necessity rather than from choice, for, given an opportunity to eat, exercise, and enjoy herself for 12 hours a day, she lays nearly, if not quite so well, as during the summer months.

Acting on this theory many poultry keepers have found it profitable to light their poultry houses for several hours each day. This lengthened day, together with the right kind of feed and plenty of exercise, has been found to increase to a marked degree the number of eggs laid by pullets in the fall and winter. It does not pay to provide light for older hens. A 14-hour day for the laying flock during the winter months is the aim of those who are following this practice.

Experiments are being carried on by the United States Department of Agriculture at the government poultry farm at Beltsville, Md., for the purpose of securing more data on this phase of poultry work. The results secured thus far corroborate the testimony of others as to the value of illumination in hen houses.

The birds used in the government experiments are fed four times a day, at eight, twelve, four and some time after dark. This last feed is for the birds' breakfast. In addition to the four feeds a dry mash is kept constantly before the birds.

By means of an ordinary alarm clock an electric switch is turned on about 4:30 in the morning. Care is taken to increase the length of the time of illumination gradually or the effect on the birds would be disastrous. At the close of the season the decrease must be made slowly. From November 1, the opening of the pullet season, to April 1 is the time when lighting is usually provided for fowls.

To secure the desired results it is necessary not only to provide food ready for eating when the birds awake, but also water. In very cold weather some special means of heating it must be provided or the watering trough will be frozen over. The birds will not do well if drink is not available also. A small oil lamp under a bucket, an electric attachment for slightly heating the water, and a watering tank insulated somewhat after the idea of a fireless cooker are the methods used for keeping the water for the flock at a temperature above freezing.

How to Save Light.

In a pen 20 by 20 two lights rather than one should be used. A wide-angled reflector that will throw the light to all parts of the building also helps to get the best results from the amount of electricity used. To save illumination the windows should be placed when feasible on the south, east and west sides of the building.

SELECTING BEST COCKERELS

Male Bird Should Have Short, Stout Legs and Full Breast—Comb Is Good Index.

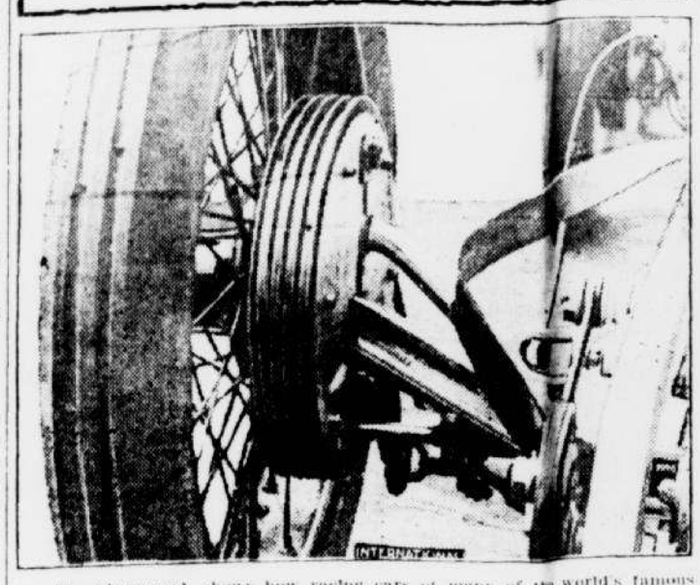
In selecting cockerels, they should have short, stout legs and full breasts. The comb is also a good index in judging the maturity of a male, as some are far ahead of others hatched at the same time. Good judgment goes a long way in selecting fowls.

BIG IMPORTANCE IN WINTER

Windows on South Side of Poultry House Should Be Opened to Supply Fresh Air.

Open the windows on the south side of the house on all except the coldest days and open them wide when the sun shines and it is fairly warm, so that the fowls can have plenty of health-giving fresh air when the temperature is not too cold.

BRAKE SUGGESTION FOR BIG CARS



The photograph shows how racing cars of many of the world's famous drivers are equipped with brakes on both front and rear wheels. The suggestion is made that if they are of benefit on a racecourse, why would they not be of equal value on a large passenger car running on the streets of a large city.

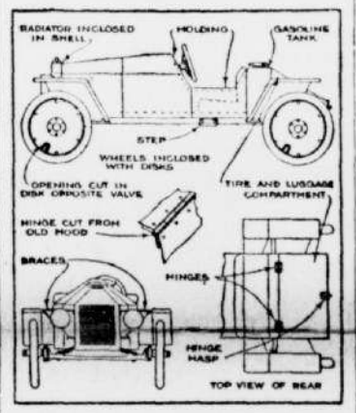
RECONSTRUCT AN OLD AUTOMOBILE

Rebuilding of Old Car Is Far More Intricate Than Is Usually Considered.

UTMOST CARE IS ESSENTIAL

Scale Drawing of Chassis and New Body Should First Be Made to Insure Correct Fit—Sheet Iron Is Commonly Used.

The desire of most owners of old cars is to "cut it down" and make a "racer" out of it, or at any rate provide the old chassis with a body that will create the impression of power



Rebuilding an Old Automobile Is Rather More Intricate Than Is Usually Considered, but by Using Care the Results Will Amply Repay the Effort.

and speed. Many such attempts are foredoomed to failure, because the body is designed with no reference to drawings, patterns or the tool equipment involved.

Preliminary to anything else, a scale drawing of the chassis and the new body should be made, and after the builder has established, to his own satisfaction, that the new body will fit the chassis, then only should the actual work be undertaken. However, a complete set of full-sized paper patterns should be made; with these the builder can determine whether the parts will fit together correctly, and at the same time rectify any errors of calculation, or judgment, that may have been made in the preliminary scale drawing.

The illustration shows a body that possesses straight lines throughout, as it is easier to work the sheet metal with sharp, angular lines than any other way, but the variety of design is infinite, and is only limited by the skill, cash and facilities at the command of the builder.

Use Sheet Iron.

The material most commonly used is No. 18 or 20 gauge sheet iron, although the lighter and more expensive aluminum can be used as well as a lighter-gauge iron, but the latter is inadvisable. For work of the kind shown in the drawing, the most essential tools will consist of a wooden mallet, tin shears and riveting and soldering equipment. Most amateur builders fall into the error of trying to apply the component parts of the body to a wooden frame with nails, which invariably results in a botched and unsatisfactory job.

Disk Wheels Not Liked.

Disk wheels are merely sheet-metal disks bolted to both sides of the wheels, with an opening for access to the tire valve. Such wheels, on the average light car, are not to be particularly commended, however, as they are not entirely satisfactory, and at the same time detract from that "low, rakish" appearance usually sought.

It should be remembered that the aim is to build a neat, individual automobile body and not a boiler, and that, therefore, the use of rivets and nails for closing seams should be shunned, since both give positive evidence of an amateur's handiwork.—Popular Mechanics Magazine.

Vacuum Tank Failure.

When the vacuum tank fails on the road it is possible to get up enough pressure temporarily to feed the fuel by blowing in the main line.

Increase in Seven Years.

There are almost six times as many motorcars and trucks now in operation in this country as there were seven years ago.

Chauffeurs' Wages in England.

Chauffeurs make on an average of $15 a week in England.

MISUSE OF CAR BATTERY

How a battery will become discharged from misuse:

Frequent starts with short runs.

Insufficient input to battery on account of short runs at low speed.

Use of headlights while standing at the curb.

Ignition switch left on battery over night.

Unnecessarily high candle power lamps, including spot light.

Lamps left burning over night.

Moving in garage or elsewhere on the power from battery.

Prolonged attempt to start in cold weather without priming and without warm water in radiator.

Prolonged attempt to start without investigating engine troubles, such as: Poorly adjusted carburetor; dirty or cracked spark plugs; gummed and sticky valves; carbon.

Starting and lighting system: Worn generator brushes; sticking of points in automatic cut-out; loose belt (leather); loose connections.

Loose connections, generator, motor or battery terminals, fuse box, ground wire, switch or spark plugs.

Grounds, due to loss of wire insulation through chafing.

Corroded battery terminals.

Infrequent filling and water filling of battery.

AUTOMOBILE HINTS

Distilled water is absolutely essential for the storage battery.

• • •

Weakening of the springs which close the valves is a common cause of faulty engine operation.

• • •

Every so often it will be wise for the motorist to inspect the wheels of his car to see if they are in perfect alignment.

• • •

American made motorcars are used by the provincial governments of Sadec, Thudaumot, Taynish, Gocong and Cochin, in China.

• • •

The type of water pump usually used in the forced circulation cooling system is the rotary type, of centrifugal or spur gear styles.

• • •

Before a chauffeur's license will be issued in Cleveland, O., a new tariff ordinance provides for the taking of finger prints of the applicant.

• • •

J. W. Urschel, seventy-five years of age, recently returned to Toledo, O., from a 1,790-mile motor journey, over which he drove himself the entire distance.

• • •

Car owners should be watchful to prevent the formation of oil puddles in the small depressions in the floor of the garage. Oil is a deadly enemy of rubber.

• • •

In cases of chronically squeaky springs, try jacking up the car so that the weight is removed from the springs and then soaking these latter with kerosene.

• • •

Chronic squeaking in the braking system is generally due to dirt that has been imbedded in the lining and is pressed against the drum when the brakes are operated.

• • •

Every motorist ought to know that wire brushes are the best possible weapons for use in cleaning the running gear of the car preparatory to overhauling and painting.

• • •

When making some adjustments it is usually necessary to exercise a little patience in order to get the best results, for the reason that the effects of adjustments are not always instantly apparent.

• • •

Spitting at high speeds in a car fitted with a vacuum feed system may be caused by a sticking float in the tank, by an air leak in the line running to the inlet manifold or by dirt or rust in the line running to the tank.

• • •

When a cup or other form of dash primer is used, the tube which connects with the manifold is apt to become disconnected by vibration. To obviate this trouble solder a sleeve on the end of the tube and allow a slip connection with the reservoir.

HOME-MADE HIDES ARE TOO UNCERTAIN

It Does Not Pay Farmer to Tan His Own Leather.

Packing Houses Have Considerable Advantage Because of Ability to Carefully Grade Skins—Holes Are Avoided.

Apparently it doesn't pay the farmer to tan his own leather. The bureau of chemistry, United States Department of Agriculture, is conducting leather making experiments upon the scale to which the average farmer would have to adjust his work, and specialists say that the results obtained thus far do not warrant general practice. Good leather can be made in individual tanneries, but the results are too uncertain to give reliable profits.

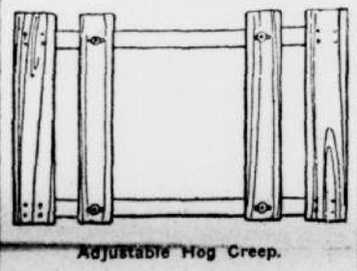
The work was taken up by the department when it became evident that the farmers were feeling the injustice of a transaction wherein they sold a whole cowhide for less than they paid out for a pair of work shoes—an occurrence not at all unusual. Investigation shows that the leather dealer is not entirely to blame for the low prices that the farmer receives for his hides. Too often the hide from the farm cow is taken off in a careless manner that leaves the skin full of cuts and holes—farm hides are never as uniform as those bought from the packing houses, where the animals are carefully graded and the skins removed by expert skinners. For that reason the hide buyer is always willing to pay more for the packer's product than he can offer the farmer.

Then, too, the farmer sells his cowhide to the junk dealer, who deducts his profit from the price he pays. Whenever it is possible to collect a number of hides and skins it will pay the owner to deal directly with a large dealer, the specialists say.

ADJUSTABLE CREEP FOR PIGS

Boards Held Perpendicularly by Bolts May Be Close Together or Far Apart.

Here is an adjustable hog creep that may be used to admit to a pen or feed lot pigs up to a certain size, and exclude all above that size. Usually the boards of a hog creep are horizontal but in this case they are perpendicular, says a writer in Successful Farming.



Adjustable Hog Creep.

The hogs can always pass through without stooping, and since there is no board to rub along their backs there is less danger of injuring them. The two outside boards are nailed to the cross-pieces while the two middle boards are held in place by bolts which pass through elongated holes. These two middle boards may be close together or far apart depending upon the size of the hogs to be excluded.

INCREASE IN ALFALFA CROPS

Larger Yields Secured by Oregon and Washington Farmers by Application of Sulphur.

Farmers in Oregon and Washington have greatly increased their alfalfa crops by the application of sulphur. This practice is based upon the results of investigations by the experiment stations in these states as well as upon demonstrations of the use of sulphur on alfalfa conducted by the county agricultural agents in co-operation with specialists from the agricultural college. In Deschute county last year 285 tons of sulphur were used, at a total cost of a little more than $14,000, and the increased yield, reckoned at $20 a ton, was $120,000. In Jackson county 277 tons, costing about $13,000, are estimated to have increased the yield $110,000. In Klamath county 98 tons, costing $5,400, gave an estimated increase of $40,000, reckoning alfalfa at $15 a ton. Demonstrations in Josephine, Wallowa and Wasco counties give a similar ratio of results. The first experiments in sulphur fertilization in these states were made in 1912. Rapid development of the innovation was made possible through the system of county agents and key men who were practical farmers.

GUTTERS KEEP CELLARS DRY

Cement Ditches Carry Water From House Far Enough to Prevent Injury by Seepage.

A few homemade cement gutters will drain away the water from the gutter pipes and help keep a cellar dry. The cement ditch can be 8 inches wide, 2 inches thick and widened at the receiving end to resemble a shallow platter, says the United States Department of Agriculture. It should be sufficiently long to carry the water from the gutter pipe far enough from the house foundation to prevent seepage. If the work is set flush with the ground it offers no hindrance to passing feet or to the lawn mower.

EGGS FOR HIGH-CLASS TRADE

Where Dirty Eggs Have Been Cleaned a Shiny Appearance Is Left on Surface.

Even if dirty eggs are cleaned, they are cut in some markets the same as though they were dirty. This is because the characteristic rough surface of the egg is removed and becomes smooth by washing, giving a shiny appearance. This is not wanted by a high-class trade.

Improved Roads

IMMENSE SUM FOR HIGHWAYS

During Year 1919 Over $400,000,000 Was Expended for Rural Highways and Bridges.

During the calendar year 1919, 46 states of the Union expended over $400,000,000 on their rural roads and bridges, the bureau of public roads of the United States Department of Agriculture recently announced. This total is made up of the actual cash expenditures for such items as labor, materials, supervision and administration, amounting to $389,455,981, and convict labor and statute labor, the value of which, not definitely known, is estimated at about $132,000,000. So far as possible, all expenditures on city streets within incorporated towns

Building an Up-to-Date Highway.

and cities and all items of sinking fund payments or the redemption and interest payments on road and bridge bonds have been excluded.

The road and bridge expenditures for 1919 show an increase of approximately 33 1-3 per cent over those of 1918 and 70 per cent over those of 1914. More striking, however, is the increase in the proportion of the total funds supervised by the several state highway departments. In 1918 the expenditures by or under the supervision of the state highway departments amounted to $117,285,268, while the local road funds, over which they exercised no control whatever, amounted to $168,812,925. In 1919, however, the state highway departments supervised the expenditure of $200,292,694 as against the total of $189,163,237 expended by the local road and bridge authorities.

REMOVING SNOW FROM ROADS

Becoming Increasingly Important Because of Large Amount of Travel During Winter.

Snow removal from highways is becoming increasingly important because of the large amount of travel by motortrucks and automobiles. Several states have made appropriations for removal of snow from the main highways but in other states there has been no appropriation of funds for this purpose. Vast quantities of commodities must be hauled over the highways next winter because of the lack of sufficient railway cars to move them, and state money, rather than local funds ought to be used to keep truck highways open.

IMPROVED ROADS WOULD AID

Many Counties Rich in Agricultural Possibilities Are Burdened With Poor Roads.

Fluctuations in market prices may have several explanations. They frequently take place in regions where the local production does not equal the annual consumption. There are counties rich in agricultural possibilities, burdened with bad roads, where the annual incoming shipments of foodstuffs exceed the outgoing shipments in the ratio of four to one. Many such counties with improved roads could not only become self-supporting, but could ship products to other markets.

TREES DO NOT INJURE ROADS

Instead of Taking All Out It Would Be Better to Thin Out to 50 or 75 Feet.

Why cut down all trees along the highway being graded? We recently saw two or three dozen large maples along a road taken out entirely. It would look much better and be as usable if the row had been thinned to 50 or even 75 feet. If the road were well made the trees would not injure it at all. Let's have some shade on our new roads.—LeRoy Cady, associate horticulturist, University Farm, St. Paul.

Plant Some Trees.

If you live on the south side of the road, plant some shade trees to shelter the hot traveler. In a few years people will say: "He lives on the farm where those big elms shade the road."

Determine Profits.

Farmers' profits are determined by the difference between production and transportation costs and the selling prices. Production must cease when the transportation costs wipe out the difference.

King Split-Log Drag.

The King drag, invented by the man whose name it bears, consists of logs, squared and faced, and connected one behind the other by means of heavy braces.

Have Bearing on Sorghums.

Conditions of soil and weather have a great bearing on grain and forage sorghums.

Chickens for market should be made as fat as possible, as the buyers want them that way.

HELP THAT ACHING BACK!

Is your back giving out? Are you tortured with backache and stabbing pains? Does any exertion leave you "all played out?" Feel you just can't keep going? Likely your kidneys are to blame. Overwork, colds, hurry and worry tend to weaken the kidneys. Backache is often the first warning. Headache and dizziness may come, too, and annoying kidney irregularities. Help the kidneys with *Doan's Kidney Pills*, the remedy recommended by thousands. *Ask your neighbor!*

A Texas Case

G. W. Evans, deputy sheriff, Conroe, Tex., says: "I hurt my back lifting. I had a constant ache in the small of my back. My kidneys acted too frequently and the secretions were highly colored. I had dizzy spells, too. I heard of Doan's Kidney Pills and one box cured me of the attack."

Get Doan's at Any Store, 60c a Box

DOAN'S KIDNEY PILLS

FOSTER-MILBURN CO., BUFFALO, N. Y.

Be prepared to liberally pay your way; then it doesn't matter how old you get.

Dont Forget Cuticura Talcum

When adding to your toilet requisites. An exquisitely scented face, skin, baby and dusting powder and perfume, rendering other perfumes superfluous. You may rely on it because one of the Cuticura Trio (Soap, Ointment and Talcum). 25c each everywhere.—Adv.

Paradoxical Value.

"Signor Tenorini has such liquid notes." "Odd, isn't it, that they give him such solid returns."

Important to Mothers

Examine carefully every bottle of CASTORIA, that famous old remedy for infants and children, and see that it Bears the Signature of Chas. H. Fletcher

In Use for Over 30 Years.

Children Cry for Fletcher's Castoria

One Explanation.

Jud Tunkins says the reason so many of us are afraid of work is that we are too bashful to get acquainted.

Wright's Indian Vegetable Pills contain nothing but vegetable ingredients, which act gently as a tonic and purgative by stimulation and not by irritation.—Adv.

A Total Loss.

"Why did you discharge your new clerk?"

"He was too accommodating," said the grocer.

"What?"

"He kept opening canned goods to show lady shoppers they were in a fine state of preservation."—Birmingham Age-Herald.

Check That Cold Right Away

Dr. King's New Discovery soon breaks a cold and checks a cough

A SUDDEN chill—sneezes—stuffy feeling in the head—and you have the beginning of a hard cold. Get right after it, just as soon as the sniffles start, with Dr. King's New Discovery. For fifty years a standard remedy for colds, coughs and grippe.

You will soon notice a change for the better. Has a convincing, healing taste that the kiddies like. Good for croupy coughs. All druggists, 60c and $1.20 a bottle.

For colds and coughs

Dr. King's New Discovery

Put "Pep" in Your Work

Many a man has been a failure in business, many a woman in her home, because constipation has clogged the whole system, storing up poisons that enervate and depress. Dr. King's Pills act mildly and make bowels act naturally. Same old price, 25 cents.

Prompt! Won't Gripe

Dr. King's Pills

In Conditions of Nervous Exhaustion

The person whose nervous system has been overburdened by work, worry or care; or, who is experiencing a faulty and slow convalescence; or, who is suffering from the general debility and feebleness that result from an acute or infectious disease, will find in FORCE a beneficial aid to normal strength and health.

FORCE is sold by reliable druggists everywhere, and is of equal benefit to men, women and children.

"It Makes for Strength"

Force

DON'T DESPAIR

If you are troubled with pains or aches; feel tired; have headache, indigestion, insomnia; painful passage of urine, you will find relief in

GOLD MEDAL HAARLEM OIL CAPSULES

The world's standard remedy for kidney, liver, bladder and uric acid troubles and National Remedy of Holland since 1696. Three sizes, all druggists. Guaranteed. Look for the name Gold Medal on every box and accept no imitation.