

OIL IN ROAD BUILDING

How Petroleum Is Used on Top of a Macadam Bed.

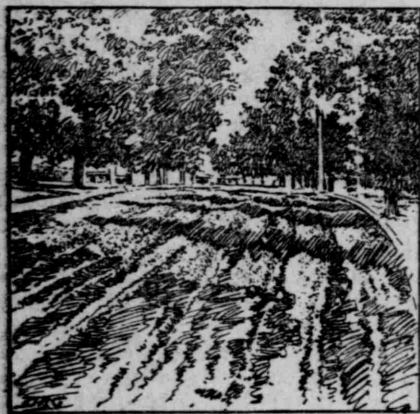
A FINE SURFACE OBTAINED.

Better Than Asphalt, Does Not Crack and Lump—Rolling Must Not Be Done in Wet Weather or When Ground is Soft.

The old system of "oiling roads and streets" is clearly a flat failure except for a moderate improvement of some of the worst thoroughfares. The new system of "making roads with oil" is proving a success whenever proper methods are pursued.

The oil and natural soil no longer go where real results are wanted. The use of the heavy ten to eleven gravity petroleum has become quite general. Its superiority has been well demonstrated, but there is a wide difference between different oils of this gravity and with the same amount of asphaltum. Some of that sold is well nigh useless, although it is unquestionably of the specified gravity and contains the required percentage of asphalt. The oil must possess the adhesive quality and be able to bind the rock and asphaltum together—in other words, the necessary petroleum.

The best roads are undoubtedly the macadamized highways found in older sections. The building of such thoroughfares with the use of oil on the surface to form a top dressing and



ROAD READY FOR OILING.

present a surface like asphalt pavement is just in its infancy in southern California, says the Los Angeles Times. In Pasadena there are a number of streets of this kind, notably Madison avenue, prepared at a cost of 12 cents per square foot and with a depth of seven inches of foundation. Blocks of this street are scarcely distinguishable from asphalt paving. There are others similar, but some are not equal to this. At the same time they are superior to those prepared in the old way.

The new method of macadamizing and oiling as laid down in a set of specifications used for a number of streets may be outlined substantially as follows: For the foundation grading is done by the removal of all earth, stone, loose rock, cement, shale, hardpan, etc., to a depth of seven inches below the intended finished surface and to a farther depth of two feet below the subgrade whenever mud, sand or other soil material is encountered, the space to be refilled with good earth or gravel. The whole is rolled with a roller of not less than twelve tons in weight until the surface is unyielding, all depressions made by the roller being filled up and rolled again. All portions that cannot be reached by the roller must be tamped solid, and the rolling must not be done in wet weather or when the ground is soft and muddy. This subgrade must be checked by the street superintendent before proceeding with work.

On this grade a bottom course of macadam is laid consisting of stone not exceeding three inches in diameter and not less than one and a half inches. This layer will be five inches in thickness and is rolled with a twelve ton steam roller until the stone ceases to sink under the roller or to creep in front of it.

A top course of stone between three-fourths of an inch and an inch and a half in diameter will cover this to a depth of two inches and will be rolled as before after a first coating of oil (one-half a gallon to the square yard) is applied evenly so as to saturate the entire top layer. Then all voids are filled in with rock screenings of the same material as the macadam not exceeding three-quarters of an inch in diameter, with a top dressing of the same material laid to the depth of half an inch, after which there is given a second coating of oil to the same amount as before and the whole rolled and tamped until no evidence of the oil remains on the surface except as shown in the color of the screenings. Sharp sand is to be sprinkled wherever any oil remains to absorb it. These specifications provide that oil shall be of 10 to 11 gravity, with 80 per cent asphaltum at 80 penetration and with not more than 2 per cent water.

The Pacific Electric and Los Angeles Interurban railroads are using this method on their rights of way in Pasadena, Long Beach and one or two other points. It is said to be better than the use of asphalt, as it gives with the pressure of the rails under weight of cars and can be taken up and replaced without difficulty. It does not crack and lump, as does the asphalt. It is hard to tell it from the latter, sometimes impossible, for the average person. In Long Beach the result has been very good.

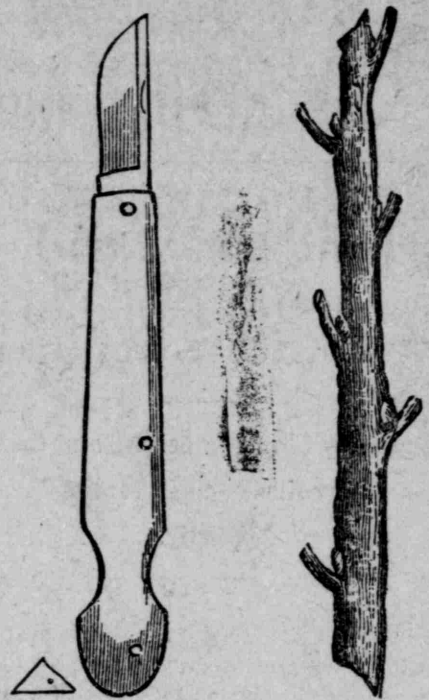
New Road Machine.

C. A. Baldwin of Pasadena, Cal., is experimenting with a new machine, built on the principle of a disk plow, for the purpose of keeping oiled roads in condition.

HOW TO BUD.

May Be Done Even by One Who Is Inexperienced.

It is not yet too late to bud fruit trees. Keep a sharp knife. Cut the twig from the tree from which you wish to bud. Cut out a vigorous bud, with about a half inch or more of bark and wood below the bud and about an



BUDDING KNIFE. BUD STICK.

eighth or a quarter of an inch above the bud. Cut off the leaf in the axil of which lies the bud to within an inch or so from the bud, leaving only the bottom as a handle to assist you in the operation. Now cut out all the wood from the bark save a very little under the bud. Some cut it entirely out.

Cut through the bark of the tree stock the letter T and with an ivory or polished bone blade or something that is thin and smooth open or separate the bark from the wood sufficiently to insert easily the bud and no more, then quickly smooth the raised bark over the bark below and above the inserted bud. Wind and tie around the tree stock and insertion, commencing at the bottom, strips of bass matting, leaving only the bud exposed to the air. You can tell within two or three weeks whether the buds have set or not. If they do not the buds will dry up, shrink and die, but if successful they will look vigorous.

In from two to three weeks cut the strips of matting and remove them, thus giving all a chance to expand. In the spring if your buds do not winter kill, as peach buds sometimes do, they will shoot forth and, weather and insects permitting, in due time will bear you an abundant harvest.

In the spring, after the bud has started to grow, remove the top of the



BUD IN POSITION. BUD COMPLETE.

tree or branch to within a few inches of the bud, so that the sap will more generally flow into it, and as the shoot ascends tie it to the remaining stock to prevent the winds wrenching and breaking it. Peach trees are budded, and so are most kinds of stone fruit.

Worth Remembering.

As a traveler passes through any country he judges the prosperity of the farmer chiefly by the appearance of his buildings and farmyards. He can get some line on conditions by looking at crops in the field or cattle in the pasture, but the story is told most fully and accurately by the paint on the barn and the lawn grass in front of the house. And when the real estate agent takes a prospective buyer through the country he depends largely, almost chiefly, on the grounds and buildings to set the price on every farm. These considerations of themselves should urge all farmers to the improvement of their premises. But there are other reasons even more powerful to influence thoughtful men and women in the same direction. Most important is the fact that this is home. It is the place where father, mother and children live. The family life centers here. If there is to be any home feeling it must come through a thoughtful care for the comforts, conveniences and beauties of the home. If there is to be any uplift in intelligence or morality it must find its opportunity in wholesome and attractive surroundings. One of the greatest differences between a farm and any other enterprise is that the farm is both a business and a dwelling place. Many things which a man would not care to undertake for the benefit of his business merely he must put through for the sake of his home. This has ever been the spirit of American farm life at its best, and it needs to be preached on every hand today.

Timely Hints.

There are contrivances to put on plows that pulverize the soil as you go along. Each round drags or crushes the last furrow.

The man who does not have to stop to scour his plows and shovels isn't lucky. He's thrifty and careful.

The state of Kansas owns a proprietary poison for killing prairie dogs and poppers. It is made at the experiment station and sold at cost to farmers.

LETTUCE OVERNIGHT.

The Mushroom Growth Is No Longer In It Nowadays.

This is a suggestion for the winter. It is a secret of how to get lettuce for a luncheon or a dinner party overnight. The mushroom growth is no longer in it with the overnight lettuce.

The expert gardener says it is not generally known, but it can be put into practice if a woman will only take notice and know how.

The way to do it is as follows: A box is filled with rich earth, mixed with one-third part slaked lime, using lukewarm water. The seeds must be softened by having been soaked in strong brandy for twenty-four hours.

The sowing is in the usual way, and, behold, in twenty-four hours one has a head of lettuce for dinner that night!

Whether or not this is a conjurer's trick can be found out by yourself. No one has admitted whether the lettuce goes to the head on account of the brandy, and no one has added up the cost of the brandy against the ordinary cost of a head of lettuce in the market.

Here is another gardener's trick for making flowers bloom in a minute on a cold winter's day to adorn the dinner table:

All you have to do is to select perfect, tightly closed buds with long stems. Cover the ends of each stem at once with sealing wax. See that each bud is perfectly dry and inclose it in waxed paper.

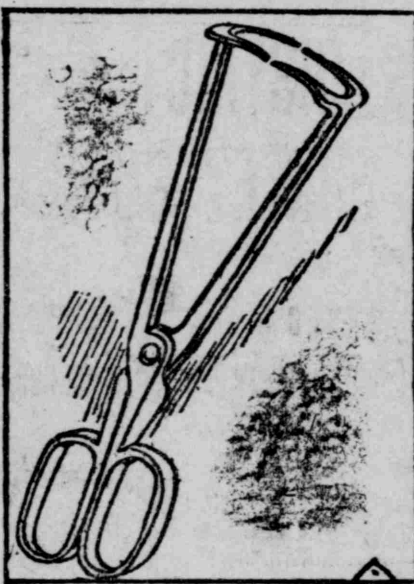
Put each one away from the air. When you get ready to have full blown flowers go to your conservatory on the shelf, take the buds and cut the stems, place in water in which has been dissolved a tiny bit of niter of salt, and you will have a full blown rose for your dinner table.

It might be much easier to telephone the florist for a few roses, but you would miss the fun of growing your own in a few minutes.

UNIQUE CARVING FORK.

Resembles a Pair of Scissors or a Pair of Pliers.

The contrivance shown in the accompanying illustration resembles a pair of pliers, but it is not. It is a carving fork which the inventor claims



FOR THE CARVER.

is a great improvement over the carving forks now in common use. Again, it might be mistaken for a pair of scissors, being of similar construction, with the exception that when the handles are drawn together the shanks still remain apart. At the end of each shank are the prongs. When it is desired to hold the meat to be carved the handles are swung apart, causing the prongs to do likewise. The shanks are then placed at opposite sides of the meat and the handles drawn together. With the aid of this utensil the meat can be securely held, the grip increasing in proportion to the force exerted upon the handles. The prongs being prevented from contracting, they cannot cut or crush the meat.

HEALTH AND BEAUTY.

Dark rings under the eyes show that the body in one way or another is being overtaxed by worry or that the physical system is deranged. Lack of rest, late hours or an irregularity of the kidneys will bring those gray, heavy lines. Drink plenty of water every day, get out of doors regularly, look after the diet and get to bed early.

The fluffy headed girl will often find water efficacious in the training of her hair. In this case the hair near the head is gone over with a wet brush and an effort is made to lay it in waves. After this a veil is placed over the hair in the shape of a cap until the hair is dry. If there is the slightest tendency to curl, a couple of weeks of this sort of treatment will develop it.

For very sick people toast water is a nourishing, palatable drink. Put several pieces of cold, crisp toast in a thick pitcher, pour boiling hot water over it, cover the pitcher to keep in the steam and after it has soaked for fifteen minutes strain off the hot water which contains the nourishing essence of the bread. It can be kept in a cool place until the next time to reheat it.

Do Not Be Morbid.

To a degree sensitiveness is a good quality and one to be cherished. But every fine quality has its defects, and the defect of undue sensitiveness is morbidness.

Never torture yourself by wondering if on this or the other occasion you made yourself appear ridiculous. If you wrote a foolish letter, let it go at that. If you made a silly speech, be comforted. People will not remember it long. If there was a clever thing you might have said and did not, remind yourself that there are more days to come and there will be other chances.

JOB PRINTING

Our Plant is equipped with the latest facilities to turn out the best of Job Work.

Our Business has increased materially in the past month. It is growing steadily from day to day. People who never patronized this office before are bringing their work here.

Nothing Is Too Large for us to handle. Nothing is too small to prevent our giving it the very best of attention.

We Have the Best Plant in Eastern Kentucky. All work is carefully taken care of and Jobs are turned out of this office the day they are promised. There is no irritating delay!

We Are Also Prepared to handle Book Work, Pamphlets, Circulars, Folders and all kinds of bound and folded work.

Lawyers' Briefs can be set as expeditiously and cheaply as in any part of Kentucky.

All We Ask from any one is a single trial. If we do not satisfy you, we will not urge you to come again.

THE
WINCHESTER
NEWS CO.
INCORPORATED

S. Main St., - - Winchester.

JOB PRINTING