

**"Till Everything is Done,
Nothing is Done."
—ANDREW JACKSON.
"OLD HICKORY"**

Attention to detail—"OLD HICKORY" never overlooked small matters. He appreciated the great principle that "perfection is made up of a multitude of perfect details." He prepared himself for the big tasks by careful attention to the small, and through his indomitable will and rugged nature, he dominated big situations by reason of his

—thorough mastery of detail, and
—adherence to a principle.



No man who did not, ever could have earned the title "OLD HICKORY."

Now think how that name on a wagon suggests care in selection of materials and attention to the details of construction.

This attention to small and large points keeps "OLD HICKORY" wagons at work on the road and out of the repair shop for a lifetime of satisfactory service.

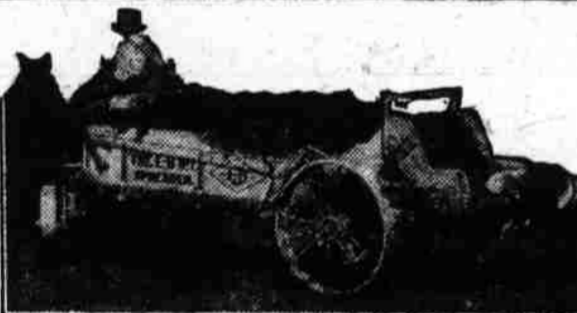
Free Write to us for a most readable book "Autobiography of a Famous Wagon."

Go to the "OLD HICKORY" Dealer in your neighborhood

KENTUCKY WAGON MFG. CO.
Incorporated

LOUISVILLE, KENTUCKY

Makers of "OLD HICKORY" and "TENNESSEE" Wagons, Log Wagons, Teaming Gears, Farm Carts, Farm Trucks, Manure Spreaders, Lime-Fertilizer Sowers, Motor Trucks, etc.



E-B Manure Spreader
Easy to Load—Easy to Pull

All steel—wide spread—18 steel blades. Conveyor is simple and durable—remarkably efficient. Box is 2 inches wider at rear—prevents binding—reduces draft. Wheels track—automobile type construction. Short wheel base. Weight only 1800 pounds. 55 bushels capacity—only 3 ft. 5 in. from ground to top of box. Look for the E-B trade mark. It's our pledge and your guide to quality.



Emerson-Stratton Implement Co., (Inc.) Rock'd, Ill. Dallas, Tex.
Please send me free literature on articles checked

- | | | |
|--------------------------------------|---|--|
| <input type="checkbox"/> Plows | <input type="checkbox"/> Hay Tools | <input type="checkbox"/> Tractors, Gas |
| <input type="checkbox"/> Harrows | <input type="checkbox"/> Listers | <input type="checkbox"/> Engine Pumps |
| <input type="checkbox"/> Cultivators | <input type="checkbox"/> Gas Engines | <input type="checkbox"/> Tractors, Steam |
| <input type="checkbox"/> Mowers | <input type="checkbox"/> Wagons | <input type="checkbox"/> Thrashers |
| <input type="checkbox"/> Spreaders | <input type="checkbox"/> Buggies | <input type="checkbox"/> Corn Shellers |
| <input type="checkbox"/> Drills | <input type="checkbox"/> Auto Trailers | <input type="checkbox"/> Saw Mills |
| <input type="checkbox"/> Planters | <input type="checkbox"/> Potato Machinery | <input type="checkbox"/> Rolling Presses |

Name _____
Address _____

KITSELMAN FENCE

Got it from the Factory Direct
HORSE-HIGH, BULL-STRONG, PIG-TIGHT.
Made of Open Hearth wire heavily galvanized—a strong durable, long-lasting, rust-resisting fence, hold direct to the Farmer at wire mill prices. Here's a few of our big values:
26-inch Hog Fence—16¢ a rod
47-inch Farm Fence—24¢ a rod
48-inch Poultry Fence—29¢ a rod
Special Prices on Galv. Barbed Wire and Metal Fence Posts. Our Catalog shows 100 styles and heights of Farm, Foultry and Lawn Fence of money-saving prices. Write to-day. It's free.
KITSELMAN BROS. Box 84 Muncie, Ind.

Our advertisers are guaranteed.

GASOLINE ENGINE COOLING SYSTEMS

The Kind of Cooling System Depends on the Size of the Engine You Buy and What You Are Going to Use It For

By P. T. Hines

ONE often hears discussions of the merits and demerits of the various engine cooling systems, and this sometimes leads to confusion when an engine is to be purchased. There are five standard cooling systems, and for the benefit of probable purchasers we will consider the use to which each of these five systems is adopted. The five standard systems are as follows:

1. The "shower" system.
2. Radiator system.
3. Air-cooling system.
4. Hopper-cooling system.
5. Thermo-Syphon system.

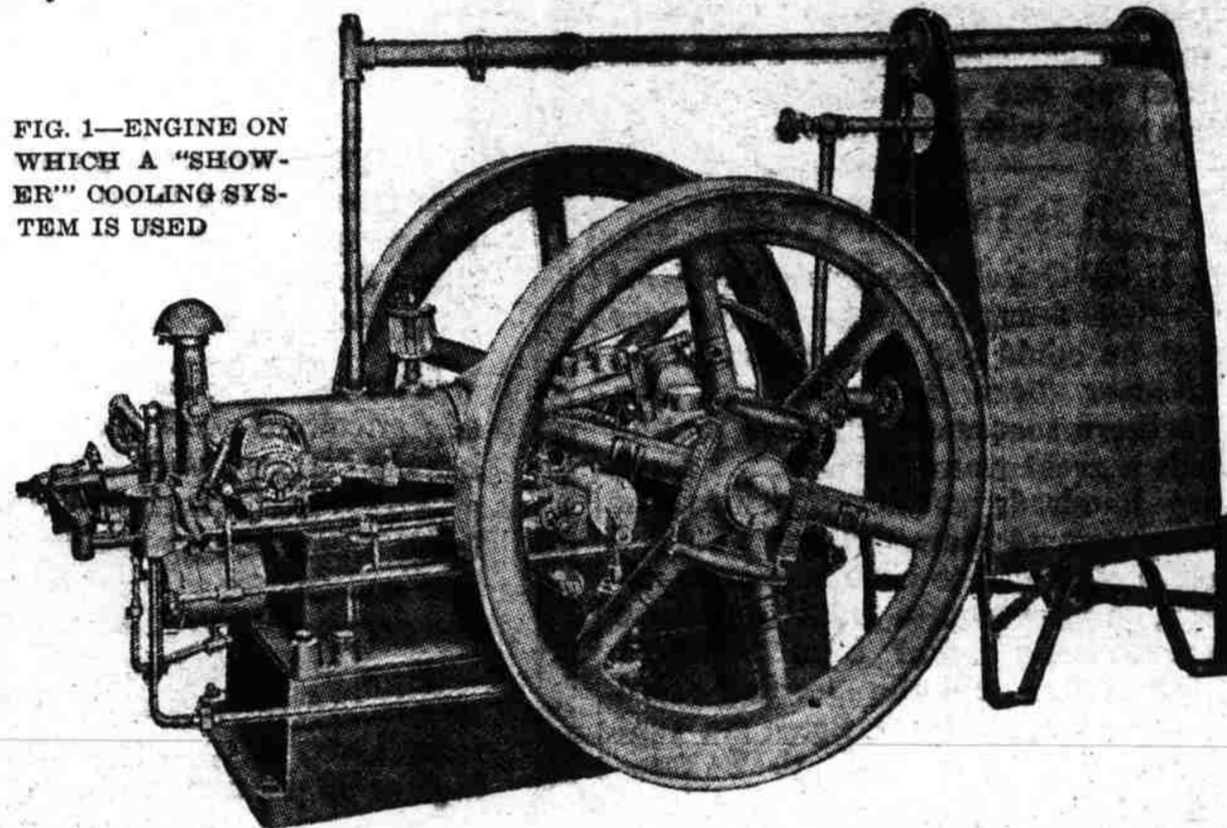
The "shower" cooling system is a very satisfactory one for heavy duty

stationary engines. In this system the water, kept in motion by a pump, passes around the cylinder, absorbs excess heat, and is then pumped out over the screen shown in Fig. 1 where it is cooled before again making its circuit.

horsepower, and such engines have been used with excellent results in pumping water, washing, churning, running the cream separator, etc.

But the most popular cooling system now in use is shown on the engine in Fig. 4, which is known as the "hopper" cooling system. The principle on which this works is that when water reaches the boiling point

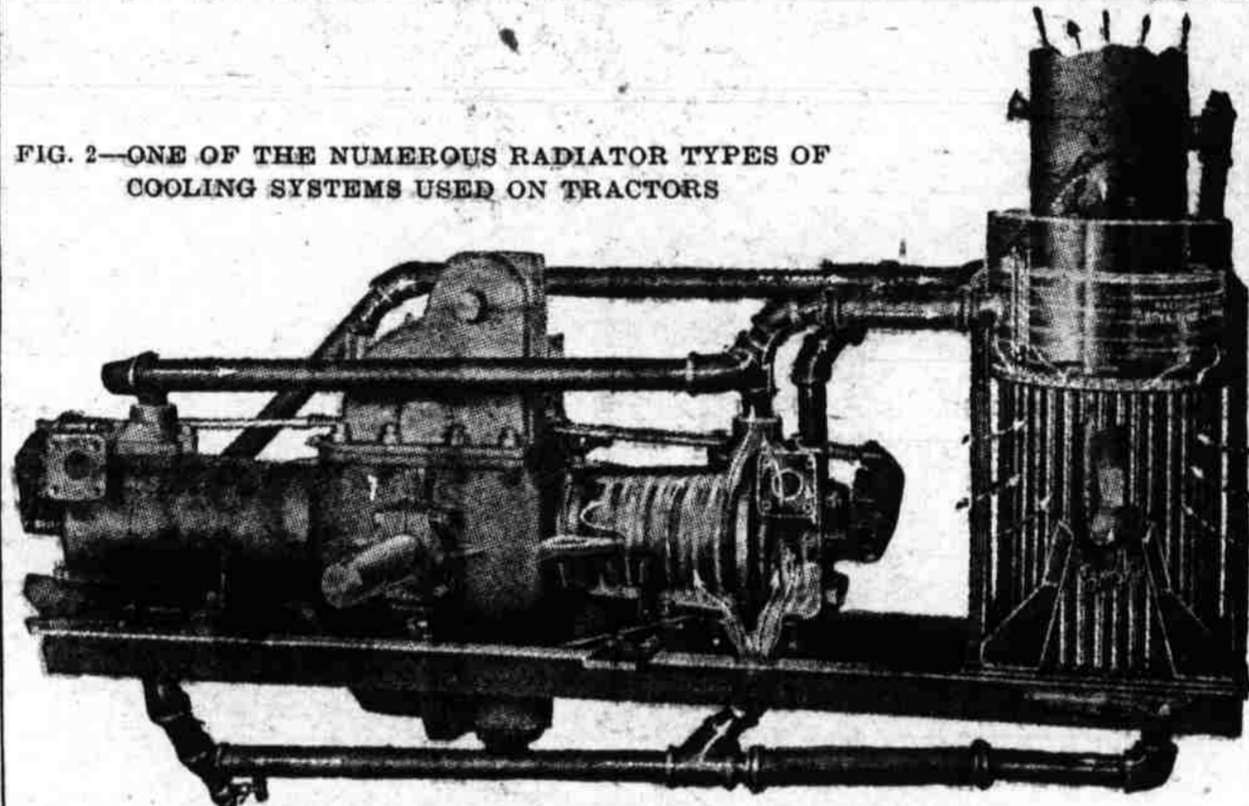
FIG. 1—ENGINE ON WHICH A "SHOWER" COOLING SYSTEM IS USED



While the cooling system shown in Fig. 1 does its work perfectly, it is not practical for use on a tractor.

Another cooling system is called the thermo-syphon. On the stationary engine this system requires a large tank of water and circulation of the

FIG. 2—ONE OF THE NUMEROUS RADIATOR TYPES OF COOLING SYSTEMS USED ON TRACTORS

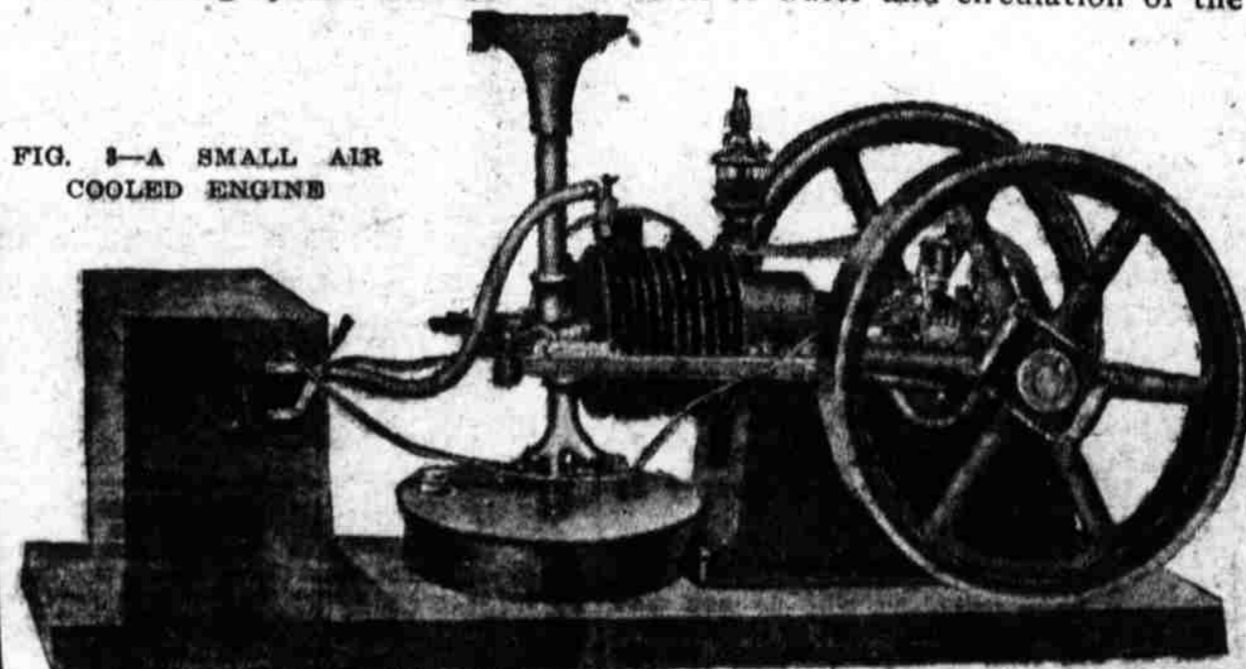


When the tractor is used for plowing or hauling, there is always more or less dust which gets into the water as it is sprayed over the screen in cooling. This dust-laden water has a tendency to quickly wear out the water pump, and sometimes even clogs the entire cooling system. For this reason the tractor must be fitted with a cooling system that is entire-

it can get no hotter unless confined. As an engine will operate without damage at the boiling point, this system has been quite successful in cooling stationary engines of 15 horsepower and less.

Another cooling system is called the thermo-syphon. On the stationary engine this system requires a large tank of water and circulation of the

FIG. 3—A SMALL AIR COOLED ENGINE



THE PROGRESSIVE FARMER
To get ahead of the Boll Weevil broadcast one hundred pounds of Nitrate of Soda

per acre, just before planting your Cotton, or use the same amount per acre along the rows after chopping to a stand.

For information write to
WILLIAM S. MYERS, Director
25 Madison Avenue, New York

Here is a Money Maker Masters Plant Setter

Transplants Tobacco, Tomatoes, Sweet Potatoes, Cabbage, Strawberries, Eggplant and all similar plants.
No Stopping—No Lame Backs
Each plant set, watered and covered—one operation. A full stand; no resetting, an earlier crop. Most practical planter ever invented.
Write for Free Booklet and Full Information
MASTERS PLANTER CO.
Dept. K CHICAGO, ILL.

SPRAY!

Whether it's a flower bed, a truck garden or an orchard, spray it and watch results improve. Take this
DEMING
Perfect Success Bucket Sprayer
Catalog Free for instance. It's as scientifically built as a Deming Power Rig and the cost is so slight it pays for itself many times in one season. Want to know the cost? Write
THE DEMING CO.
177 Depot St., Salem, Ohio
1000 Types of hand and power pumps for all farm uses

COTTON
Write at once, today, for circular describing Hawkins' Wonderful Cotton and price of seed. It's free and will be worth hundreds of dollars to you. Heaviest yields per acre; earliest maturity. No failures. No disappointments. Hawkins' circular points the way to his profits, and sure prosperity.
S. W. Hawkins, Nona, Ga.

ROUND THE WORLD TRAVEL BOOKS BY CLARENCE POE

"A SOUTHERNER IN EUROPE"
(Travel Letters from England, Scotland, France, Germany, Belgium, Switzerland and Italy).

"It is equally fresh and graphic in its pictures, judicious and penetrating in its reflections... singularly fair and acute."—Ambassador James Bryce of Great Britain.
"Many a man will learn more from it than he would from a trip to Europe itself."—Charlotte Observer.

Prices:
162 pp. 75 cents. With The Progressive Farmer one year, \$1.50. Paper bound copy with The Progressive Farmer one year, \$1.25. Free copy for \$1 in subscriptions to The Progressive Farmer.

"WHERE HALF THE WORLD IS WAKING UP"
(Travel Letters from Japan, Korea, Manchuria, China, the Philippines and India).

"There is not a dull line in it."—Dallas News.
"The fairest modern model of a trustworthy book on the Orient."—Philadelphia North American.

"It is as readable as a novel. It is full of life as a drama. It is fully up-to-date and needs immediate attention."—Brooklyn Eagle.

"I was up nearly all night reading your book, 'Where Half the World is Waking Up.' Read every line of it. It is fine."—C. E. Barrett, President National Farmers' Union.

276 pages, including 32 full pages of wonderful photographs that will make you feel as if you had yourself seen all the strange lands and peoples of the waking Orient—China, Japan, Manchuria, Korea, the Philippines, and India.

Prices:
\$1. Cloth. With The Progressive Farmer one year, both for \$1.50. Free copy for \$2 in subscriptions to The Progressive Farmer.