

## When the Furnace Fails



On many a cold winter morning you will wake to find the fires "out." What are you going to do about it—shiver? Prepare now for the emergency with a

# PERFECTION Oil Heater

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and you'll have genial, glowing heat—instantly—wherever you want it—without smoke or smell—smokeless device prevents—turn the wick as high or as low as you like. Easily carried about. Brass font holds 4 quarts of oil—burns 9 hours. Handsomely finished in Japan and nickel. Every heater warranted.



**The Rayo Lamp** makes cherry the long evening—brilliant, steady light for reading or sewing. Made of brass, nickel plated and equipped with the latest improved central draft burner. Every lamp warranted. If your dealer doesn't carry the Perfection Oil Heater and Rayo Lamp, write our nearest agency for descriptive circular.

**STANDARD OIL COMPANY**  
(Incorporated)

## HAS CONSTRUCTED ARTIFICIAL UNIVERSE

Professor Camillon Doddridge, an astronomer, of Palestine, North Carolina, owns an artificial universe, which he constructed himself.

Dr. Doddridge's planetary system is a wonderful thing and savants from all parts of the country have visited him and examined it.

In making it he constructed a strong box of plate glass and steel, like a great hollow wheel, 20 feet in diameter and 6 feet across its axis, and standing upright.

Through the center of the wheel he put a shaft attached to a series of engines and boilers and on the end of the shaft, in the center of the wheel, he placed a large number of strong magnets, forming a complete circle around the shaft five feet in diameter and one foot thick and covered on the perimeter with all the soft steel filing that the magnets would hold in place.

Then he removed the air from the inside of the great circular box, leaving a perfect vacuum, the steel and plate glass walls easily sustaining the pressure of the outer air, although its force is something enormous over so large a surface, especially the sides, 20 feet across, and which are fortified by steel cables on each side, attached to solid posts.

Above the wheel immense magnets are placed in position, in a half circle around the circular box, being strongest at the top and declining in strength the farther they reach down the sides and being intended to counteract the force of the attraction of gravitation and to tend to almost rob objects inside the box of all weight.

When this preliminary work was completed, the shaft through the box was set in motion, and this motion

very gradually increased. After a long time the first result was obtained in that a flake or layer of the steel filings was broken away from the outside of the inner wheel of magnets and the centrifugal force flung it into the open space; where it immediately drew itself together into a ball which revolved around the central shaft in exactly the same manner as the planets revolve around the sun, being held in suspense by the counteracting effects of the large magnets above and the attraction of gravitation from below, and being continually forced out from the centrifugal force, which, acting on it from the magnetic force at the center, as though it were fastened to the center by a cord, kept it out away from the center almost exactly six feet.

The speed of the shaft being still increased, another flake or layer of the filings was thrown off and immediately drew together into a ball, revolving about the shaft as before, and this was kept up till five had been thrown off, but by this time the speed of the shaft was such that the first ball was driven out against the outer side of the box and destroyed, thus leaving only four balls or "planets," revolving about their artificial "sun," but these have now been revolving with absolute regularity for some time, the innermost one at a distance of one foot from the central wheel and the outer one a little over five feet. They also revolve on their own axis as they fly about the center, and, with the exception that there is no planet with a belt, and that none of them have attendant moons, they reproduce all the conditions shown by the earth and the other planets of the solar system.

from Cape Colony, the Transvaal, Australia, India and the most distant parts of the earth. He says: "They come in every language, by every post, and hundreds of them are registered. Therefore I notified the postmaster not to deliver any more of them. The result is that birthday presents are now on the way back to friends who sent them, while I am tearing up thousands of letters unopened and causing the unwitting sacrifices of letters from friends."—New York Sun.

### Emergencies Produce Great Men.

Every man is a stranger to his greatest strength, his mightiest power, until the test of a great responsibility, a critical emergency or a supreme crisis in his life calls it out.

Work on a farm, hauling wood, working in a tannery, storekeeping, West Point, the Mexican war, doing odd jobs about town, were not enough to arouse the sleeping giant in General Grant. There was no probability that he would ever have been heard from outside of his own little community but for the emergency of the civil war.

There was a tremendous dynamic force in the man, but it required the concussion of the great civil war to ignite it. No ordinary occasion touched his slumbering power, no ordinary experience could ignite the dynamic power in this giant. Under common circumstances he would have gone through life a stranger to his own ability, just as most of the great dynamite shells now in existence will probably never be exploded because of the lack of a war emergency great enough to explode them.

Farming, wood-chopping, rail-splitting, surveying, storekeeping, the state legislature, the practice of law, not even the United States congress, furnished occasions great enough, resistance strong enough to ignite the spark of power, to explode the dynamite force in Abraham Lincoln. Only the responsibility of a nation in imminent peril furnished sufficient concussion to ignite the giant powder in perhaps the greatest man that ever trod the American continent.

There is no probability that Lincoln would have gone down in history, as a very great man but for the crisis of the civil war. The nation's peril was the responsibility thrust upon him which brought out the last ounce of his reserves, his latent power of achievement, the resources which he never would have dreamed he possessed but for this emergency.—Orison Sweet-Marden in Success.

### Gutters for Gibraltar.

On the eastern side of the rock of Gibraltar there is a curious looking white patch which recently led an American tourist to ask whether the rock was being armor plated. It is really a catchment for rain water to increase the reserve of water on the rock. The catchment covers ten acres. It is made of galvanized corrugated iron fixed to piles driven deep into the sandy slopes above the villages of Catalan. The water collected at the foot of the catchment runs through the rock into a tunnel 2000 feet long and is delivered into reservoirs on the western side. The yield to the inch of rainfall is 240,000 gallons.

## To Cure Rheumatism

The excessive accumulation of uric acid must be eradicated from the system. Dr. Miles' Nervine used as directed for rheumatism, is alkaline in nature. It neutralizes this acid, and its soothing effect upon the irritated condition of the nerves relieves pain and induces sleep and rest.

"I was suddenly taken with a severe pain in my foot. My physician could not tell what was the trouble. In a few days I had the same trouble in the other foot. I was so crippled that I could scarcely walk and at times I had to crawl on my hands and knees from my bed down stairs. After having my shoes on for an hour or two I could manage to walk by suffering the pain. I suffered more or less all summer, and tried almost everything but got no relief. Then I began to have pains all through my system. My doctor told me I had an acute attack of inflammatory rheumatism. I was in the hospital for weeks, but I was scarcely able to walk when I left it. I read about Dr. Miles' Nervine, bought a bottle and also wrote the Miles Medical Co. for advice. They advised me to add salicylate of soda to the Nervine, and I commenced to get better from the start and for the past six months have scarcely any pain, and am able to walk as well as ever."  
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Dr. Miles' Nervine is sold by your druggist, who will guarantee that the first bottle will benefit. If it fails, he will refund your money.  
Miles Medical Co., Elkhart, Ind.

### The Law Against Killing.

There is a deep-rooted feeling against murder in most animals. Their senses tell them that this is one of their own race, and their instinct that, therefore, it is not lawful prey. New-born rattlesnakes will strike instantly at a stranger of any other species, but never at one of themselves, I have seen a young mink, still blind, suck at a mother cat till fed, then try to kill her. Though a bloodthirsty creature, it would never have attacked its own mother.

Wild animals often fight for the mastery, usually over the question of mates, but in virtually all cases the fight is over when one yields. The vanquished can save himself either by submission or by flight. What is commoner than to see the weaker of two dogs disarm his conqueror by groveling on the ground? The victor in a fight between two cats is satisfied when the foe flies; he will not pursue his enemy twenty yards. In either case, had the enemy been of another race the victor would have followed and killed him.


What makes the difference? Obviously not a reasoned-out conclusion, but a deep instinctive feeling—the recognition of the unwritten law against unnecessarily killing one's own kind.

There are doubtless exceptions to this. Cannibalism is recorded of many species, but investigation shows that it is rare except in the lowest forms and among creatures demoralized by domestication or captivity. The higher the animals are the more repugnant does cannibalism become. It is seldom indulged in except under dire stress of famine. Nothing but actual starvation induced Nansen's dogs to eat the flesh of their comrades, although it was offered to them in a disguised form. Experience shows me that it is useless to bait a wolf trap with a part of a dead wolf. His kinsmen shun it in disgust unless absolutely famished.

Obviously, no race can live by cannibalism, and this is instinctively recognized by all the higher animals. In other words, the law against murder has been hammered into them by natural selection, and so fully established that not only will they abstain from preying on one of their own tribe, but will rally to rescue one whose life is threatened. The fact that there are exceptional cases does not disprove the law among beasts any more than among men.—Ernest Seton Thompson in the Century.

### To Cure Cold in One Day.

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### English and American Lies Compared

Rev. Dr. Aked, pastor of the Fifth Avenue Baptist church, New York, writes to old friends in Liverpool, England, complaining bitterly of his treatment by the yellow press both in America and England. He says the yellow press of England is worse than that of America, and adds: "The lies in America are gross, astounding and incredible, with a touch of perverted humor. They are only intended to be interesting. The English lies are mean, sneaking and venomous. I am already enough of an American to feel a deeper contempt for the lying of the British press than that of New York."

"The most gross and astounding lie of all concerning myself was of English manufacture, namely, that I have been appointed as almoner of John D. Rockefeller. The English paper that started the story headed it 'From our New York correspondent.' Newspaper men here do not believe that it was even sent from New York. I have not been employed by Mr. Rockefeller to give away a cent."

Dr. Aked then laments the fact that the story penetrated all Europe and every British colony and had brought him over 2000 begging letters from England, over 500 from France, Germany, Austria, Switzerland, Italy, Holland, and hundreds