

**Nursing Mothers and Over-burdened Women**

In all stations of life, whose vigor and vitality may have been undermined and broken-down by over-work, exacting social duties, the too frequent bearing of children, or other causes, will find in Dr. Pierce's Favorite Prescription the most potent, invigorating restorative strength-giver ever devised for their special benefit. Nursing mothers will find it especially valuable in sustaining their strength and promoting an abundant nourishment for the child. Expectant mothers too will find it a priceless aid in preparing the system for baby's coming and rendering the ordeal comparatively painless. It can do no harm in any state, or condition of the female system.

Delicate, nervous, weak women, who suffer from frequent headaches, back-ache, dragging-down distress low down in the abdomen, or from painful or irregular monthly periods, gnawing or distressed sensation in stomach, dizzy or faint spells, see imaginary specks or spots floating before eyes, have disagreeable, pelvic catarrhal drain, prolapsus, anteversion or retroversion or other displacements of womanly organs from weakness of parts will, whether they experience many or only a few of the above symptoms, find relief and a permanent cure by using faithfully and fairly persistently Dr. Pierce's Favorite Prescription.

This world-famed specific for woman's weaknesses and peculiar ailments is a pure glyceric extract of the choicest native, medicinal roots without a drop of alcohol in its make-up. All its ingredients printed in plain English on its bottle-wrapper and attested under oath. Dr. Pierce thus invites the fullest investigation of his formula knowing that it will be found to contain only the best agents known to the most advanced medical science of all the different schools of practice for the cure of woman's peculiar weaknesses and ailments.

If you want to know more about the composition and professional endorsement of the "Favorite Prescription," send postal card request to Dr. R. V. Pierce, Buffalo, N. Y., for his free booklet treating of same.

You can't afford to accept as a substitute for this remedy of known composition a secret nostrum of unknown composition. Don't do it.

**Resources of Soudan.**

There is talk in England of the proposed development of the natural resources of the Soudan through scientific exploration. Immense forests line the banks of the Blue Nile along its upper reaches, extending to the Abyssinian frontier. The ebony tree is met with along that river and also near the Sobat. Along the White Nile the India rubber creeper, a valuable source of rubber, abounds. There are large forests in the Bah-el-Ghazal province, and gold has been mined in some of the mountains of the Soudan. Search will be made for fuel.

**TORTURED WITH GRAVEL.**

Since Using Doan's Kidney Pills Not a Single Stone Has Formed.

Capt. S. L. Crute, Adj. Wm. Watts Camp, U. C. V., Roanoke, Va., says:

"I suffered a long, long time with my back, and felt draggy and listless and tired all the time. I lost from my usual weight, 225, to 170. Urinary passages were too frequent and I have had to get up often at night. I had headaches and dizzy spells also, but my worst suffering was from renal colic. After I began using Doan's Kidney Pills I passed a gravel stone as big as a bean. Since then I have never had an attack of gravel, and have picked up to my former health and weight. I am a well man, and give Doan's Kidney Pills credit for it."

Sold by all dealers. 50 cents a box. Foster-Milburn Co., Buffalo, N. Y.

**Mountain Climbers.**

The year 1906 has been distinguished for performances in mountain climbing. The Duke of Abruzzi, whose ascent of Mt. St. Elias has been eclipsed on the North American continent by Dr. Cook's more recent feat, succeeded last June in surmounting the second highest (19,024) summit of the Ruwenzori range in central Africa. The highest summit (Mt. Kibo) of this range being 19,121. But the achievement of Dr. and Mrs. William H. Workman last August over-shadows that of the Italian duke in Africa, for they succeeded in climbing to 23,394 feet on the peak of the Chago Lungma glacier in the Himalayas. This, I believe, is a record in height; though by no means so difficult an undertaking as McKinley. The Workmans camped for two nights at 21,000 feet, which becomes also a record for a mountaineer's camp. Thus, the mountain climbing honors of 1906 may be said to justly belong to America, for Dr. and Mrs. Workman and Dr. Cook are Americans.—Outing Magazine.

**LUMBAGO AND SCIATICA**



**ST. JACOBS OIL**

Penetrates to the Spot  
Relieves to the dot.

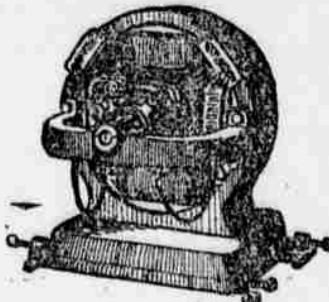
Price 25c and 50c

**What Makes the Wheels Go Round?**

**The Mystery of the Machine Under a Trolley Car.**

How many out of the thousands who ride in trolley cars understand the mechanism which moves these vehicles? Only a few, we suspect, are familiar with the form of the apparatus which serves them, or the principles involved in its operation.

An electric motor consists essentially of two parts. The outer one,

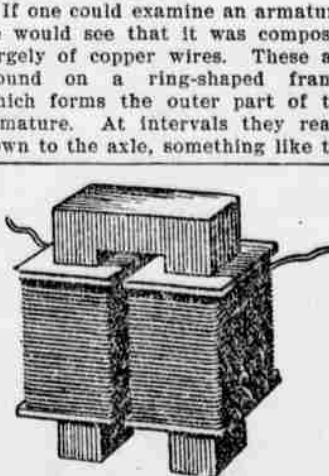


A Common Form of Motor.

which is stationary, is composed of electro-magnets. The central part, known as the armature, is round, like a drum, and rotates. Being mounted on the car axle, the revolution of the armature propels the car itself.

An electro-magnet is a bar of soft iron surrounded by a coil of copper wire, through which an electric current runs. It behaves like any other magnet so long as the flow continues, but loses its properties when the current is shut off. Just as with the common needle, there is a north and south pole to an electro-magnet, the polarity depending on the direction in which the electric current flows around it. For certain work that is done by electro-magnets—say, in telegraphy—it is usual to put two such objects side by side, the north pole of one pointing the same way as the south pole of the other. For other work they are placed end to end except for a gap between. The north pole of one then points directly toward the south pole of the other. This is the plan followed in the arrangement of an electric motor. The latter may be composed of two or more magnets, and the gap between them—sometimes called the "field"—is barely big enough to accommodate the armature.

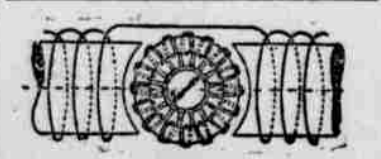
If one could examine an armature, he would see that it was composed largely of copper wires. These are wound on a ring-shaped frame, which forms the outer part of the armature. At intervals they reach down to the axle, something like the



One Style of Electro Magnet.

spokes of a wheel. An ingenious but simple device makes it possible to lead electricity from the vicinity of the axle into the wires. When the motor man admits the current to the machinery, part flows into the coils around the magnets and energizes them. Part goes into the armature. It is the strange influence exerted by the electricity in those portions of the armature wire furthest from the axle and closest to the poles of the magnets which does the work.

The most familiar magnetic phenomenon is attraction. Repulsion is equally characteristic and potent. Like attraction repulsion is manifested exclusively at the poles of a magnet, the vicinity of which is known as its "field." One illustration of repulsion is found in the behavior of iron filings that have attached themselves to the end of a bar magnet, if these are sufficiently thread-like. They cling to the magnet, but their outer ends diverge from each other. For the time being each thread is a true magnet. If the outer extremity of one is a north pole the outer extremity of the other will be a north pole, too. Now, any



Hints of Armature and Magnets.

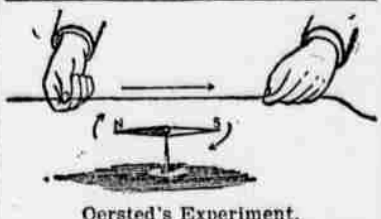
magnetic pole attracts one of the opposite kinds, but repels one of the same kind.

A different, more obscure, but genuine instance of repulsion was discovered by a Danish investigator, Oersted, in 1819. He found that if he held a wire which was not electrified directly above and parallel with a magnetic needle—in the position shown by an admirable drawing found in Silvanus Thompson's "Electricity and Magnetism"—nothing would happen, but when an electric current was admitted to the wire, the needle would swing around until it was at a right angle with the wire.

The theory adopted to explain this effect is that a wire carrying a current acquires certain magnetic qualities. One way to prove the fact is to try the following experiment: On a horizontal glass plate scatter iron filings. Through a hole in the cen-

tre run a wire. Before admitting any current, tap the plate gently for test purposes. The filings will not then arrange themselves in any particular order. Turn on the current, jar the plate to facilitate readjustment, and the filings will then form tiny concentric circles around the wire. This result shows that there is a region of influence lying just outside the wire, while it is a conductor, and Oersted's discovery indicates that the influence is of such a nature as to interfere with the magnetism of the needle. One repels the other, just as one magnet in a certain position would repel another magnet. While the wire is not the same kind of magnet the student is accustomed to, it is enough of one to conform to the law of repulsion. In the Danish investigator's experiment, the wire is held fast and the needle is mounted so as to move freely. It is the latter which changes its position, therefore. Of course, if it were possible to have the wire easily movable and yet conduct a current, and if the magnet were fixed, then the wire might be expected to yield.

Here is another experiment which confirms that suspicion, and which relates a little more closely to the construction of a motor. Lay an electro-magnet down on its side, or, what is better, lay two in a horizontal position, in line with each other. Aim the north pole of one directly at the south pole of the other. Leave



Oersted's Experiment.

a short gap between them. Arrange a single horizontal wire at right angles to them in the gap in such a way that it can easily rise or fall without losing its connections. So long as no current flows in it there will be no difficulty in making it stay at any desired level. Now send a current through it, and it will move bodily either up or down, the direction depending on that of the electricity. The effect here is not exactly the same as in the needle experiment, but it is interpreted as a modified form of repulsion. An interference occurs between the invisible magnetic envelope of the wire and the unseen force emanating from the poles of the magnets. Relief can be obtained only by one getting out of the way of the other. Motion is possible only in the wire, and this is thrust upward or downward.

Now, mount a lot of wires crosswise on the circumference of a wheel, provide means for letting an electric current into them, and suspend the wheel between the poles of two or more magnets, and you have the armature of a motor. Each wire in turn undergoes a downward push, and a succession of these impulses makes the wheel revolve with enough force to do a vast amount of work—all in consequence of a skilful adaptation of magnetic repulsion.

An electric motor is a machine for converting electricity into mechanical power. A dynamo converts mechanical power into electricity. The axle of a dynamo is made to revolve by a steam engine or water wheel, and that rotation generates electricity. The motor and dynamo are almost identical in form, latter, like the former, being composed of stationary magnets and an armature.

The principles of which use is made in a dynamo was discovered by Faraday. He found that if a wire was moved in a certain fashion opposite the end of a magnet, electricity would be excited in the wire. The cross wires on the drum-shaped armature of a dynamo conform to his requirements when the armature revolves. The current excited in each of them is led down toward the axle, where it is collected by mechanism which does not impede rotation, and is led off for use elsewhere.

For an electric railway the current is supplied by an overhead wire, and is taken off by the grooved wheel and pole. All electric service calls for a continuous route from the power station out to the scene of action. Accordingly, after it has done its work in an electric motor under a car the current is led back to the central station by the rails on which the cars run.

The "controller," out on the front platform, corresponds to the throttle valve of a locomotive. The power must go through that device before it can get into the motor. Inside of the controller are provided several paths for the current, each offering a different degree of resistance to the flow. As the motorman shifts his lever, connections are changed from one path to another. The paths are so graduated that as the lever goes from one notch to the next the resistance diminishes. At the last one, there is no hindrance. At the first there is a great deal.—New York Tribune.

**That Family Always Famous.**

It is a curious coincidence that one Horace Smith should have written a book called "Rejected Addresses," while another Horace Smith, many years afterward, should have refused to allow the suffragettes to make speeches. Heredity, possibly?—London Globe.



**WHAT JOY THEY BRING TO EVERY HOME**

as with joyous hearts and smiling faces they romp and play—when in health—and how conducive to health the games in which they indulge, the outdoor life they enjoy, the cleanly, regular habits they should be taught to form and the wholesome diet of which they should partake. How tenderly their health should be preserved, not by constant medication, but by careful avoidance of every medicine of an injurious or objectionable nature, and if at any time a remedial agent is required, to assist nature, only those of known excellence should be used; remedies which are pure and wholesome and truly beneficial in effect, like the pleasant laxative remedy, Syrup of Figs, manufactured by the California Fig Syrup Co. Syrup of Figs has come into general favor in many millions of well informed families, whose estimate of its quality and excellence is based upon personal knowledge and use.

Syrup of Figs has also met with the approval of physicians generally, because they know it is wholesome, simple and gentle in its action. We inform all reputable physicians as to the medicinal principles of Syrup of Figs, obtained, by an original method, from certain plants known to them to act most beneficially and presented in an agreeable syrup in which the wholesome Californian blue figs are used to promote the pleasant taste; therefore it is not a secret remedy and hence we are free to refer to all well informed physicians, who do not approve of patent medicines and never favor indiscriminate self-medication.

Please to remember and teach your children also that the genuine Syrup of Figs always has the full name of the Company—California Fig Syrup Co.—plainly printed on the front of every package and that it is for sale in bottles of one size only. If any dealer offers any other than the regular Fifty cent size, or having printed thereon the name of any other company, do not accept it. If you fail to get the genuine you will not get its beneficial effects. Every family should always have a bottle on hand, as it is equally beneficial for the parents and the children, whenever a laxative remedy is required.

**MEXICO TAKES WARNING.**

**Government Feared Americans Would Get Railroads.**

Mexico's government has made arrangements to become the owner of the principal railroads of the country not heretofore public property. The government has for some time owned several railroads, but those now acquired will vastly increase its holdings, and in fact practically abolish private ownership of this means of transportation in the republic. Minister of Finance Limantour, in explaining to the Mexican congress the reasons which prompted the government to consummate the great railroad merger by which the republic comes into possession of the two great trunk lines of the country, together with thousands of miles of subsidiary lines, said that if this defensive action had not been taken by Mexico, some of the great railway systems of the United States would have entered the republic and swallowed its transportation facilities. The minister further declared that the government was first forced to go into the railroad business in 1903, when it purchased the National railroad to prevent it being merged with the Central.

**Hypothetical Question.**

When Nathan M. Morse was trying the Tuckerman will case before Judge McKim, Dr. Jelley, the well-known expert on insanity, was one of the witnesses. One of the hypothetical questions asked of the witness by Mr. Morse contained no less than 20,000 words. The lawyer started this pithy question at the opening of court and closed only a few minutes prior to the noon adjournment. The point that Mr. Morse was endeavoring to bring out related to the mental condition of the testator when he made his will. This is said to have been the longest single interrogation ever made in a court of law, and the answer comprised just three words: "I do not."—Boston Herald.

**CRIED EASILY.**

**Nervous Woman Stopped Coffee and Quit Other Things.**

No better practical proof that coffee is a drug can be required than to note how the nerves become unstrung in women who habitually drink it. The stomach, too, rebels at being continually drugged with coffee and tea—they both contain the drug—caffeine. Ask your doctor.

An Ia. woman tells the old story thus:

"I had used coffee for six years and was troubled with headaches, nervousness and dizziness. In the morning upon rising I used to belch up a sour fluid regularly.

"Often I got so nervous and miserable I would cry without the least reason, and I noticed my eyesight was getting poor.

"After using Postum a while I observed the headaches left me and soon the belching of sour fluid stopped (water brash from dyspepsia). I feel decidedly different now, and I am convinced that it is because I stopped coffee and began to use Postum. I can see better now. My eyes are stronger.

"A friend of mine did not like Postum, but when I told her to make it like it said on the package, she liked it all right." Name given by Postum Co., Battle Creek, Mich. Always bell Postum well and it will surprise you.

Read the little book, "The Road to Wellville," in pgs. "There's a reason."

**The Reindeer in Harness.**

The capacity of the reindeer for team work is remarkable. His hoofs are broad and do not penetrate the snow crust. His average weight is about 400 pounds. He will swiftly draw a sled carrying 600 pounds, and this load can cover 30, 50 and even 90 miles a day. Reindeer teams now carry the mails from Kotzebue to Point Barrow, Alaska, a distance of 650 miles—the most northerly post route in the world. No food is carried for the deer. At the end of his journey, or at any stopping place, he is turned loose, and at once breaks through the snow to the white moss which serves as food.

**Keep Your Blood Pure.**

No one can be happy, light-hearted and healthy with a body full of blood that cannot do its duty to every part because of its impurity; therefore, the first and most important work in hand is to purify the blood so that every organ will get the full benefit of a healthy circulation. There is no remedy we know of so good as that old family remedy, Brandreth's Pills. Each pill contains one grain of the solid extract of sarsaparilla blended with two grains of a combination of pure and mild vegetable products, making it a blood purifier unexcelled in character. One or two taken every night for awhile will produce surprising results.

Brandreth's Pills have been in use for over a century and are sold in every drug and medicine store, plain or sugar-coated.

In Freiburg, Switzerland, the women wear stovepipe hats on fete days.

At a recent church fair in England one of the means used for increasing the receipts was a guessing contest as to the weight of the pastor.

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

A monument to Captain James Cook was unveiled in New Zealand last month.

To Cure a Cold in One Day  
Take Laxative Bromo Quinine Tablets. Druggists refund money if it fails to cure. E. W. Grove's signature is on each box. 25c.

**Historic Remains Disappearing.**

Ten years hence, declares Professor Finders Petrie, there will be little to find for archaeological work. In every direction the chances of recovering history are disappearing, and they will have vanished forever by 1916.

Japan has organized a strong military expedition to occupy the island of Formosa, owing to the many assassinations which have recently taken place by the savages of the interior.

**DROPSY NEW DISCOVERY!** gives quick relief and cures worst cases. Book of testimonials and 50 Days' treatment free. Dr. H. G. BAKER'S DROPS, Box 11, Atlanta, Ga.

**SAM JONES' LIFE AND SAYINGS**

BY HIS WIFE

AGENTS WANTED Agents are earning money. Send for Canvasing Outfit and Contract for territory. Big Book, 7x10, Price \$2.50 Circulars Free. J. B. NICHOLS & CO., ATLANTA, GA.



**Does What Other Stoves Fail to Do**

In almost every house there is a room that the heat from the other stoves or furnaces fails to reach. It may be a room on the "weather" side, or one having no heat connection. It may be a cold hallway. No matter in what part of the house—whether room or hallway—it can soon be made snug and cozy with a

**PERFECTION Oil Heater**

(Equipped with Smokeless Device)

Unlike ordinary oil heaters the Perfection gives satisfaction always. First and foremost it is absolutely safe—you cannot turn the wick too high or too low. Gives intense heat without smoke or smell because equipped with smokeless device. Can be easily carried from room to room. As easy to operate as a lamp. Ornamental as well as useful. Made in two finishes—nickel and japan. Brass oil fount beautifully embossed. Holds 4 quarts of oil and burns 9 hours. There's real satisfaction in a Perfection Oil Heater. Every heater warranted. If not at your dealer's write our nearest agency for descriptive circular.

**The Rayo Lamp** makes the home bright. Is the safest and best lamp for all-round household use. Gives a clear, steady light. Fitted with latest improved burner. Made of brass throughout and nickel plated. Every lamp warranted. Suitable for library, dining room, parlor or bedroom. If not at your dealer's write to nearest agency.

**ATLANTIC REFINING COMPANY**