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## SAUGEEN

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Is highly recommended by Prof. Pyne, Dominion Analyst, Toronto, for persons suffering from either rneumatic taints of constitution, or habits of constipation. It is a most palatable table water, and is absolutely pure. Recommended by leading physicians. A trial will convince you that it has merit of a high order. For sale by Central Drug Store and F. A. Robert.

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Package of Laundry done in the very best I ossible menner sent it to the

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Co.

TELEPHONE 20 Minard's Liniment Cures Garget in

MECHANICS FOR BEGINNERS.

The Manner in Which Water Pumps Ar

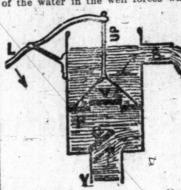
The common pump consists of a barrel or cylinder connected with the well or source of water by a pipe which opens into its lower end and is covered by a valve or lid U opening up-

In the barrel is a closely fitting pis ton or plug P, which can be raised or lowered by means of the rod. This piston also contains an opening which is covered by a valve V opening up-

The top of the barrel is generally furnished with a spout S and the platon rod is worked by the lever or "pump handle" L. To explain the action of the pump let us start with the barrel full of wa-

ter and the piston at the bottom of the

cylinder. In the up-stroke (Fig. 1) the valve V remains closed and the pressure below the piston is reduced, and the atmospheric pressure acting on the surface of the water in the well forces water



up the pipe, waich lifts the valve U and enters the barrel. At the same time the water above the piston is raised to the level of the spout and

runs out. In the down-stroke (Fig. ) the valve U closes and the water lifts the valve V and passes from the lower to the upper side of the piston P.

In the next up-stroke this water is raised to the spout, while a fresh supply of water runs into the barrel

through the valve U. Since the water below the piston is raised from below by the pressure of the atmosphere, it follows that the height of the piston above the surface of the water must never exceed the height of the water barometer (about thirty-four feet). Otherwise a vacuum will be formed in the barrel and water will cease to flow in. If during a portion of the stroke the piston is less than thirty-four feet above the water level, water will then enter the barrel; but the portion of the stroke in which the piston rises above that height will be useless.

If the weight of the lower valve U be taken into account, the limit to the height of the piston will have to be rather less than thirty-four feet in order that the water may lift this valve. If the pump is used for raising any other liquid the greatest height is, of course, the height of a barometer of that liquid; e. g., mercury could only be drawn, up thirty inches with a



When a pump is first placed in water the pipe and barrel are full of air, which must be pumped out before the water will rise into the barrel. Suppose the piston at the lowest

point of the cylinder In the first up-stroke the air in the pipe expands and part of it rushes through the valve U into the barrel, while the reduction of pressure allows a column of water to rise up into the

In the first down-stroke the valve U closes, and as soon as the air in the barrel has got compressed to atmospheric pressure it begins to escape

In the next up-stroke the air in the pipe again expands through the valve U into the cylinder and the reduction of pressure allows the water to see still further in the pipe. This process continues till the water at last reaches the barrel, when the continuous action as a water-pump pegins and a volume of water equal to that of the barrel is raised at each stroke.

A Funuy Little Boy know a funny little boy,-The funniest ever born; His face is like a beam of joy Although his clothes are torn

saw him tumble on his nose. And waited for a groan,-But how he laughed! Do you support He struck his funny bone?

There's sunshine in each word speaks; His laugh is something grand;

Its ripples overrun his cheeks

Like waves on snowy sand.

He laughs the moment he awakes. And till the day is done, The schoolroom for a joke he takes,

The lessons are but fun. No matter how the day may go, You cannot make him cry; He's worth a dozen boys, I know,

-Wide Awake.

Who pout and mope and sigh.

Troubled for years. Sore All Over. Could not use them. Spread ever-Arms, Neck, and Face. Smarted Tike Fire. Physicians no Benefit. Tried CUTICUEA. Immediate Relief. Permanent Cure.

I had been troubled with tetter for several years. At times my hands would be sore all over, so that I could not use them at all, and were so tender that clear water, even, snarted like fire, and it epread over arma, nech, and face. I had been treated by physicians, but without benefit, been freated by physicians, but without benefit, when I began the Curricum remedies. I found railed before I had taken the first bottle. I used three or four bottles of Curricum Ensouvent, one cake of Curricum Soar, and one box of Curricum (cintiment), and it has a ever troubled marking. ELLA CURZON, Epplechem, Ill. Marca 10, 1898.

### **BLOOD POISON CURED**

By Cutieura Reselvent One of my children ran a resty nail into his foot, which was most pulnful. In blood got out of order, and sores broke out on his hands and feet. I gave him one bottle of Curroura Resouvery and used one cake of Curroura Resouvery and used one of the child re-EGAP, principally as a circ, and the child re-covered. Mrs. J. E. PUREN, March 15, 1838. Markham, Fla.

CUTICURA RESOLVENT Bagins with the Clood and Ends with The Skin and Coalp.

That is to say, it purities the blood and circulating flul is of fluxuith themse, and thus removes the onese, while warm belies with Critician Soar, the onese, while warm belies with Critician (cintiment), the month of histories (when carries Creame the sline carries of the c

Soid throughout the world. POTTER D. AND C. CORP., Sole Props., Beston. "Bow to Cure Every Humer," free. SAVE YOUR SKIN Hands and Hair by using

Try throughout life to make friends, Enemies will make themselves. And the truest companion is he who most enjoys solitude.

The healthy old man wears his gray hairs like a silver crown. What if he be threescore and ten if there is still fire in his eye, firmness in his step command in his voice and wisdom in his counsel? He commands love and reverence. Yet how few wear the mantle of age with dignity. Dim eyed, querulous of speech, halting in step. childish in mind, they "lag superfluous on the stage," dragging out the face wild of life in a simple existence. ous on the stage, dragging out the fag end of life in a simple existence. The secret of a healthy old age is a healthy middle age. The man who takes care of his stomach, who keeps his body properly nourished, will find that the body does not fail him in old age. The grant value of Dr. Pierce's age. The great value of Dr. Pierce's Golden Medical Discovery lies in the preservation of the working power of the stomach and other organs of di-gestion and nutrition. From this centre is distributed the nourishment of the whole body, the salt for the blood, the lime for the bones, phosphates for the brain and nerves. A sound sto-mach means a sound man. A man who keeps his stomach sound by the use of "Golden Medical Discovery" will wear the crown of gray hairs as befits a morarch, with dignity and ease.

mountain of a molebill. It depends on the distance you are from it.

Will work at Night.

Countless thousands have found blessing to the body in Dr. King's New Life Pills, which positively cure Constipation, Sick Headache, Dizzigness, Jaundice, Malaria, Fever and Ague and all Liver and Stomach troubles. Purely vegetable, perel gripe of bles. Purely vegetable; never gripe or weaken. Only 25c., at A. I. Mc-Call & Co.'s Drug Store.

We cannot avoid having a reputaof a reputation it shall be.

I know MINARD'S LINIMENT will cure diphtheria.

John D. Boutillier.

French Village.
I know MINARD'S LINIMENT will cure Croup. J. F. Cunningham.

Cape Island. I know MINARD'S LINIMENT is the best remedy on earth. Joseph A. Snow. Norway, Me.

You need not pack up any worries You can get then anywhere as you go

Seventeen Years of Torture.

"I had a bad cough for seventeen years," writes Mrs. Sam'l Hamilton, of Lawnville, Tenn. "No doctor or medicine could cure it until one year ago I began to use Dr. King's New Discovery for Consumption, which did me more good than all other medicines I aver used. It is truly a grand cure for stubborn Coughs, Colds and Throat and Lung troubles." Positively cures Consumption, Pneumonia, Grip, Bronchitis, Asthma, Hay Fever and Croug. Price 50c. and \$1. Guaranteed. Trial bottles free at the Drug Store of A. I. McCall & Co.

Great as heaven and earth are, men still find things in them with which to be dissatisfied.

He Fooled the Surgeons.

All doctors told Renick Hamwton, of West Jefferson, Ohio, after suffering 18 months from Rectal Fistula, he would die unless a costly operation was perfermed; but he cured himself with Bucklen's Arnica Salve, the best in the world. Surest Pile cure on earth. 25c. a box. Sold by A. I. McCall & Co., Druggists.

judicious silence is always better than truth spoken without charity.



FLORIDA MOSS.

He Blarket Value-Freeze of Past Winte The freeze of this year killed the Florida moss. People who do not recognize what this means must think that this sombre gray drapery of the Southern forests gives one hundred bales a week of "mess hair" to the Northern upholsterers from the little village of Micanopy, Fla., alone, and other factories in the State yield many times as much, and this is only about ore half of the weight of the moss when taken from the trees. The other half is the useless envelope to the inner and valuable hair. There is a mistaken idea as to how the outer portion of the mess is removed. It is generally supposed that the covering is removed by chemicals or by passing through some ingenious stripping machine. The latter would be too expensive and the former open to the danger of injuring the natural elastic-

fty of the fibre. The moss when first gathered is greenish-gray. When killed by frost or lack of proper sustenance, it is easily distinguished from the live moss. It turns gray, and if bitten feels soft, while the live moss "crunches" between the teeth. But the outer covering will remain on either the dead or fresh moss for months. If the moss, either alive or killed, is simply piled in heaps in a moist place and covered with muck or sand it soon begins to ferment. The temperature of the interior of the beap rises to a point to hot for the hand to bear, and, if not checked, it keeps heating till too hot to walk over. But this sage means damage to the interior hair and must be avoided. Properly conducted, the fermentation means the complete destruction of the outer skin and the moss is left duly "colored," i. e., showing the dark brown color of the hair.

It reaches this stage in the hands of the pickers, who then deliver it in loose wagon loads, like hay, to the gins. There are about fifty of these ginning establishments in the Statevery simple affairs. The building is constructed as cheaply as possible, and, costing from \$200 to \$300, no insurance is obtainable. The floor is six feet from the ground and made of slats one and one-half inches apart, so that short fibres, sticks and dirt will sift out. In the building & nothing but a cheap modification of a cotton gina cylinder two feet long and of the same diameter, with two-inch teeth which beat the moss agianst similar stationary teeth, taking out sticks and rubbing off most of the adhering remains of the outer covering of the mess. The machine is cheap and very inefficient. The resulting moss either "two-cent moss" or "three-cent moss"-the price per pound after ginning-according to the care with which

the picker delivered it. The writer was surprised to learn that this is the only preparation the moss receives. It is shipped in bales direct to the wholesaler, who generally distributes them unopened to the up-

holsterer. The freeze will not interfere with this year's crop. The dead moss is treated just as before the freeze. But the outlook for next year is bad. The crop will be small. Usually, where a tree has been picked clean, plenty of small bits are feft, so that in a favorable locality the tree will be full again in two or three years. This was shown by the practice in moss localities of cleaning it from the orange trees every two years. But when the temperature fell to eight degrees in the centre of the State last February the moss was quite generally killed, and its developments so checked that the yield will be smaller for several years South of Ocala little harm was done. Scientific American.

The New 420 Ton Destroyers.

The 420-ton destroyers lately ordered by the United States Government are an improvement on the usual type, but we must go a good deal further in the same direction to obtain a vesse meeting all the conditions that such vessels must meet in sea service.

Recent acquirement of territory by the United States makes it necessary that such vessels for their navy shall have a much greater radius of action, and shall be treated differently. In fact, if a speed of 30 knots or more is aimed at, a sufficiently stanch sea-going vessel cannot be produced in the present state of the art. To obtain 30 nots with the boats now credited with that speed, a supreme effort under expert management is required, which is

seldom repeated in the life of the boat If the 30-knot torpedo boat destroyer's machinery were more substantial, so that full power could be exerted at any time without risk, and if the hull were sufficiently strong to stand a moderate sea without danger, its speed would be about 27 knots. Yet I venture to say that such a boat, if ordered to reach a point at sea, say, 100 miles distant, would, under ordinary conditions, reach that point in less time than would be required by the regulation 30-knot boat which is said to get a horse power with less than 5 pounds of machinery.—G. W. Dickie, in the Engineering Magazine.

Not a Bit Sorry. "I wish my dolly didn't have suc! a round face and such rosy cheeks," said four-year-old Mabel. "Oh, that makes her look strong and

healthy," said her mother. "Yes, that's the trouble," replied Mabel. "When I want to play that she's sick and almost dying she looks so awfully fat and healty I jusht can't feel one bit sorry for her."-Chicago

Mormon missions have been estabdahed in the Philippines

Mrs. Joe Sims

iffered from all that a woman of emedy that cannot be recommended ighly to women. They are good, chi and easy to take. They cured me entire of weakness." Mrs. Joe Sims,



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# CONSIDERATE

Lord Reberts Over-anxious About Railroad Co. Free State Chickens.

How One of the Buffs Bayoneted Treacherous Poer-The Ubiquitous Kitchener.

Bennet Burleigh, writing to the Daily Telegraph, records the intense dissatisfaction caused among certain sections of officers by Lord Roberts' considerate treatment of their late foes in the Free State. Mentioning the strict discipline imposed upon the British force, Mr. Burleigh says :- A Canadian appropriated a chicken from a farm yard. I know thousands of officers and others who have done the same thing, and nothing has been said of it. The poor Can-adian came before a court-martial and was adian came before a court-markal and wes sentenced to fifty-six days' hard labor for his offence. It makes the stomachs of many an ordinary reputable soldier, holding Her Majesty's commissions, turn to think they have escaped censure, and have eaten of such 'pincked' chickens. I am told the Canadian Colonel addressing his men found no complaint with the sentence, which some body said night have been hanging."

body said night have been hanging.

Mr. Burleigh adds this reference to Lord
Kitchener:—"The great mystery man of
this war game in undoubtedly Lord Kitchener of Khartoum. His energy, ubiquity
and genius are beyond doubt, but where
is he! I wish I knew, for where he is there
is matter to write about worthy of rublic is matter to write about worthy of public

Stories of "Fighting Mac" are always eagerly read in England, and Mr. Bur-leigh's latest anecdote of the well-known Scotch General is as follow:-- "One of the incidents that have reached me of the Paardeberg fight is that Major-General MacDonald and his brigade major, Captain Wingham, while making reconnais-sences got away from showers of Boer but lets fired at very short range. The General received his wound through the ankle and foot sometime after when, in a relatively safe position, as he dismounted from his horse. That dey Captain Wingham had three horses shot and had he not dismounnted from the last one the shell which killed ed from the last one the shell which which it must surely have finished him. Gen. Mc-Donald had his wound dressed in the hospital and followed his brigade, though he had to do so wheeled in a low dog cart. He has all but recovered now, and has resumed active

"When the Essex, Buffs and Welsh were pressing the Boers, including the Johannes-burg police contingent, at Dreifontein, the usual white flag trick was played by the enemy. Despite repeated injunctions to the contrary several of our officers and men stood up and were instantly saluted by a storm of Mauser bullets. An offlicer and storm of Mauser bullets. An offlicer and two or three privates were hit, but a hig fellow in the Buffs sprang forward over the twenty yards or so that separated him from the enemy and bayoneted the man who had held up the white flag, driving the steel through the Boer's throat and killing him on the steel.

on the spot. He who seeks after what is impos sible ought, in justice, to be denied what is possible.

He is a Wonder.

All who see Mr. C. F. Collier, of Cherokee, Ia., as he is now, cheerful, erect, vigorous, without an ache, could hardly believe he is the same man who hardly believe he is the same man who a short time ago, had to sit in a chair, propped up by cushions, suffering intensely from an aching back, in agony if he tried to stoop—all caused by chronic kidney trouble, that no medicine helped till he used Electric Bitters and was wholly cured by three bottles. Positively cures Backache, Nervousness, Loss of Appetite, all Kidney troubles. Only 50c. at A. I. Mo-Call & Co.'s. Druggists. ney troubles. Only 50c. Call & Co.'s, Druggists.

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afternoon. The shortest and quickest route to the west. All Wabash trains have free reclining chair cars, and are solid wide vestibule from headlight to rear platform. Full particulars from any R, R. agent, or J. A. Richardson, District Passenger Agent, northéast corner King & Yonge Sts., Toronto and St.

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