We have a deal of the second

# A Modern Miracle

He Tad Eczema 25 Years and Doctors Said "No Cure."

Yet Zam-Buk has Worked Complete

This is the experience of a man of high reputation, widely known in Montreal, and whose case can readily be investigated. Mr. T. M. Marsh, the flares behind the plate glass of the gentleman referred to, lives at 101 jeweler's window. Fire burns in every Delorimier Avenue, Montreal, and has facet. The lurid glow fascinates you. lived there for years. For twenty-five What is the figure? years he has had eczema on his hands. The amount depends entirely upon and wrists. The disease first started the honesty of the dealer. If he knows in red blotches, which itched, and when scratcked became painful. Bad buying a real, nature-made gem, the sor followed, which discharged, and product of untold centuries, the value the scharge spread the disease until of which is bundreds of pounds, or his hands wee one raw, painful mass one of laboratory manufacture, which was made in an hour and which is of sores. This state of affairs con tinue for twenty five years!

warsh tried remedies of all kinds, dealer in man-made gems. but a also at last gave it up. For The sapphire and the ruby of hu-

fi , and a little perseverance with this cure! And the cure was no temporary buys are genuine. cure. It was permanent. He was cured nearly four years ago. Interviewed the other day. Mr. Marsh spid: "The cure which Zam-Buk worked has been stone formed in the mighty workshop absolutely permanent. From the day that I was cured to present moment I have had no trace of eczema, and I factured sapplines and rubies as genieel sure it will never return."

It you suffer from any skin trouble, cut out this article, write across it the name of thispaper, and mail it with one cent stamp to pay return postage' to there are more than five thousand cut-Zam-Buk Co., Toronto. We will forward ters employed in turning out millions of carats of these scientifically made stones annually, there is a considerable output to be labelled. famous remedy, 50c. box, or three for ] \$1.25. Rufuse harmful substitutes.

## The Original Fruit Canners.

beginning; a party of Cincinnatians found in what had been the pantry of a house many jars of preserved figs. One was opened and they were found to be fresh and good. Investigation showed that the figs had been put into jars in a heated state, an aperture left for the steam to escape and then sealed with wax. The hint was taken, and the next year fruit canning was infreduced into this country, the process being identical with that in vogue at Pompeii twenty centuries ago.

## Boiled Glass. "

Brittleness of glass is due to the quick cooling of the hot substance. It is known that constant motion tends to rearrange the molecule in any substance, and a similar effect is observed when glass is boiled in a weak solution of salt in water and allowed to cool gradually. The toughness of the glass is increased very much, and the effect of quick heating is less disastrous to .t. This is easily applied to articles used in the laboratory and to glass globes for lighting purposes and prevents much break.

Not So Bad.

A young lawyer who has recently hung out his shingle here was retained by a criminal with \$5 and a very poor defense. "Well, you got a case, son?" said

his proud father. "Yes, dad."

"And what advice did you give your

"After listening to his story I colsected what money he had and advised him to retain a more experienced lawyer."

# WHY KEEP OH COUGHING? Here Is A Remedy That Will Stop It

Do you realize the danger in a

neglected cough?

Then why don't you get rid of it? Yes, you can shake it off, even though it has stuck to you for a long time, if you go about it right.

Keep out in the fresh air as much as you can, build up your strength with plenty of wholesome food, and take Na-Dru-Co Syrup of Linseed, Licorice and Chlorodyne.

This reliable household remedy has broken up thousands of hacking, persistent coughs, which were just as troublesome as yours, and what it has done for so many others it will do for you.

Na-Dru-Co Syrup of Tinseed, Licorice and Chlorodyne contains absolutely no harmful drugs, and so can be given safely to children, as well as adults. Your physician or druggist can confirm this statement, for we are ready to send them on request a complete list of all

the ingredients. Put up in 25c. and 5oc. bottles by the National Drug and Chemical Co. of

Canada Limited.

#### SYNTHETIC JEWELERY

SCIENTISTS ARE NOW IMITATING GEMS SUCCESSFULLY.

The Situation In Europe Where False Stones Are So Good as To De Mistaken by Experts Is Growing Serious and Dealers Are Insisting on Legal Steps-Any Stone Can Now Be Counterfeited.

The doep flash of a blood-red ruby

valued at about two shillings a carat. You are at his mercy. Therefore, if In that time four eminent medical you are a buyer of precious stones, ried to cure him, and each gave make a friend of your jeweler and assure yourself of his honesty. For this is the hour of the unscrupulous

two years he had to wear gloves day and night so terrible was the pain and i.ching when the air got to the sores.

The gain a Zam Buk! He tried it just man manufacture are everywhere. They are being "created" in the laboratories of the Paris chemists at the gems, and the ruby, are the only stones that can be manufactured by Then came Zam-Buk! He tried it just | rate of about seven the resemble the | the synthetic method. as he had tried hundreds of remedies be- gems which nature requires centuries fore. But he soon found out that Zam- to produce that the expert alone can Bake was different. Within a few distinguish the real stone from that weeks there were distinct signs of bene- of laboratory origin. The average jeweler who has himself had little ex- they reached the age of seventy years. perience in handling these gems canhad given up all bope of a complete the expert's word that the stones he

> The trouble grows serious, especially in Europe. The buyer of a synthetic ruby or samphire may go through life believing that he possesses a of nature, unless he happens to receive the opinion of an expert. In Germany and France, selling manuuine is so general that the jeweler's association of Paris and Berlin have asked their respective countries for stringent laws compelling the manufacturers to label their goods, and as

There is no stone that cannot be traordinary strength, by studying out coloring schemes and by chemistry it is possible to imitate every stone al-We are indebted to Pompeii for the | most perfectly. Of course, an examgreat industry of canned fruit. Years | ination of the glass product by a jewago, when the excavations were just eler would show the difference, but there are few microscopes at the social gatherings where these gems are

It is a costly business in a way. Sometimes as much as \$5,000 is expended in experiments before the right coloring is obtained for some particular form of jewel which has become a fad. However, once the coloring is found the manufacture of the stones becomes cheaper and cheaper as the output, grow. Sometimes glass ewels are turned out at a cost of less than sixpence a carat.

The instant a real gem of any particular charm appears in the market the chemists of all the artificial jewei makers begin to study it. And before the real jewel has approached the zenith of its popularity the artificial stone has been brought forth and is selling like the proverbial wildfire-at about one-fiftieth of the price of the real product.

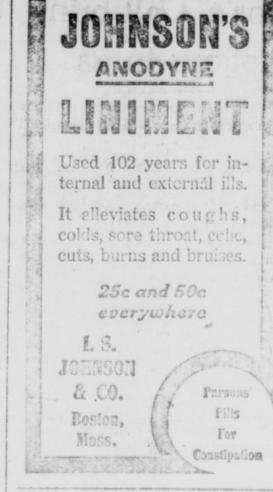
But it is not in the really artificial stones that the jewelers see trouble. They know they can detect these where they cannot detect the synthetic gems. And in these synthetic gems lurk the danger. It would be possible, some jewelers say, to flood the market with scientifically made rubies and sapphires.

The cause of it all began about ten years ago in a crystal of purified alum. for from this material the synthetic stones are made. The inventor was M. Verneuil, of Paris, who followed the work of chemists whose combined efforts had extended over centuries. All of the experiments had been on the principle that since nature's gems were produced by heat the man-made stone could be produced in the same way. Crystals had been formed in this manner, but the process of coloring had formed the stumbling block. Verneuil solved the question by mixing oxides with the purified alum.

After this the alum and oxides were placed in an oxyhydrogen furnace so devised that the gem-making material would drop through an intense flame. Thus a base was formed of the halfmelted powder as it fell before the range of the flame and piled steadily up. Higher and higher it went until the top was at the exact point of the flame. There it remained, and the gathering heat slowly caused it to form into crystals. Other powder was dropping from above. This, too, was formed into crystals, and M. Verneuil, after hundreds of experiments, opened his furnace to bring forth the first "boule" or rough bit of manufatured

jewel. This was sent to the cutters. and when their work was done it was announced to the world that the manufactured ruby was a reality. Work was then begun on the manufacture of sapphires. However, the coloring of this stone was more difficult, and it was two years before the work was

completo"-



M. Verneuil is now endeavoring to solve the coloring schemes of other stones in order to manufacture them

### Long Lived Lions.

instances having been recorded where

### AN AUTOMATIC DREDGE.

Russian Machine Dredges Rivers With Power From Current.

An interesting dredge which is automatic in its operation has been working on the river Volga, in Rus. killed by, covering them with some sia, for some time for the purpose of good cutside varnish or gold size and maintaining a level river bottom by letting it remain until "tacky." then woving the dirt from the high places laying on medium tin foil and burnishand depositing it at the low spots, ing. Let this dry thoroughly before The dredge is the invention of a Rus- applying the paint .- Popular Mechansian nobleman.

Beneath the craft there is supported a screw by which the soil is gathered up. There seems to be almost no limit that in some instances as much as 230 feet has been operated. The inventor sees no reason why the screw should not be made 600 feet long if found de-

The power which drives this dredge is derived from the current of the stream on which it is at work. In operation these sections are secured together to the desired length on the shore and then launched into the stream, where the line of screws is secured beneath the dredge. When the eraft is moved into a position where the full force of the current is encountered the machinery is automatically set in

motion and the work proceeds. sible to deposit the soil on scows for removal to more distant points.

# THE BLOWPIPE FLAME.

A Recent Invention That Melts Metal Submerged in Water.

The weiding and melting of metals by the use of the blowpipe flame have spened up a new field for the manufacturer, says Popular Mechanics. An inventor has recently constructed a torch with which illuminating gas and air are used to practically duplicate the results obtained by the oxybydrogen



MELTING METAL UNDER WATER.

or oxyacetylene flames. The blowpipe. is made in numerous sizes for the various kinds of work.

. The flame from the blowpipe made for jewelers does not produce a flame any larger than the size of a match, while any size may be used for larger work. One of the most remarkable features of this blowpipe is that it will melt metals while they are under water. The flame parts the water and will melt at that point only, the other surfaces being covered with wa-

ter.

Vaccination For Typhoid.

The new preventive treatment for typhoid by inoculation with dead typhoid germs produces benearbe and malaise, sometimes even a bit of fever, but these symptoms soon pass and are followed by a feeling of unasus! vigor and health.

The so called typhoid ' saccine" can be obtained now by any physician from the Army Medical school at Washington, where it is being put up In large quantities in they bermetically sealed vials, each representing one dose. The stuff is simply a "culture" of typhoid germs in beef soup, the microbes being killed by heat.

Two doses given with a hypodermic tyringe are supposed to render anybody immune to the disease, putting bim, that is to say, it exactly the condition for resisting attack that he would enjoy if he had really had typhoid fever and had recovered from it. -New York World.

Steam Collier of Stone.

The Italian engineer Gabellini is, according to the Debats, now engaged in constructing for the Italian government a steam collier entirely built of. stone. Gabellini made experiments extending over several years with small stone skiffs and found them very buoyant and strong and easy to navigate. He is now building a steamer on an iron keel, forming a double framework first, into which cement is poured, thus forming the hull, which is extremely light and absolutely water tight. This hull, too, is smooth and can be polished like marble, and no Lions are comparatively long lived, shellfish or seaweed can become attached to it.

How to Kill Knots.

There is nothing better to apply on ordinary knots and pitchy places in Particularly bad knots are sure's

Improved Car Wheel.

For two years past the Pittsburg and to the width of the channel that may car wheel that was designed by the Lake Erie milread has been testing a be cut by this dredge. The screw's chief engineer of the Carnegie Steel cutting surface may be increased as company. Although the Pittsburg and desired by the addition of sections, so Lake Eric railread carries an unusuak in drawing water from ships? stood up so well under the trying service that the company has announced introducing air into the water at

Hardness of Vanadium.

American saws of vanadium steel are claimed by J. M. Flannery to cut as many as 400 steel axles without attention, while the best imported saws ket, built by the municipality. With needed grinding after cutting eighty the exception of the larger varieties, axles. The best steel for metal cutting seems to be that containing vanadium, .32 per cent; tungsten, 17.81 per By a recent improvement it is pos- cent; chromium, 5.92 per cent; carbon, .032 per cent; manganese, .07 per cent; silicon, .049 per cent. In the tests made vanadium steel saws intended for wood cutting are reported to have cut a twenty penny nail and even to have sawed through an iron pipe an inch in diameter without injury to the teeth.

## ESSENCE (F'MUMMY.

Queer Medicine That Was Used Not So Long Ago In Persia:

were used as medicines. Among them China was invaded by a Mongolian was essence of mummy, which held a army under Mao-tun. The Chinese place in the pharmacopoeia even dur. Emperor was besieged in the city of ing the last century.

and Asia by the Arabs. Their therapeutic virtues were attributed to substances used by their embalmers. The substances were supposed to have swathing bands used with secret and peculiar art to wrap the dead. Essence of mummy was recommended in cases of convulsions, as a cure for boils, in epilepsy, colds, etc.

In Persia embalming was once the rule. The shahs offered mummies, or portions of mummi , as gifts to the monarchs whose friendship they respect d, and chroniclers record the fact as worthy of historical note that Louis XIV. and Catherine of Russic tered "esence of mummy."

A manuscript recently found, the production of the Persian post Nizam, gives the formula for producing the was sealed and set away to ripen.
At the close of a period varying from fift- to a hundred years the body, completely mummiffed, was taken and

to the pleasure of your Preabfact o Die

and the extraction of the "essence"

### Raising Water With Air.

Is all schoolboys know, a suction pump can theoretically eleva only about thirty-three and one-third feet, a column of water of that height balancing the atmospheric pressure. A means has, however, been found of causing a suction pump to rai water to a height of even sixty feet The invention was made by a w man in the French marine. serie, the chief engineer of the rine, remarked that one particul Inquiry developed the fact that a workman had thought of the plan of that it will build a \$3.000,000 pingt at Homestead for the exclusive manufact ture of the new wheel.

Hardness of Vanadium

Buying Fish In Copenhagen.

kept alive in tess lated tanks fille I with running water. There is no other town where all the fish, whether cheap or dear, are so beautifully fresh. In when wanted. But, as every one canthere are water tanks on wheels, and the live fish are brought to the doors of the people's houses.

## A Chinese Ruse.

In former times strange products war between China and Mongolia, and Two sorts of mummies were used to be hopeless he ordered that a numfor the production of the extract—the ber of lay figures representing beautitrue and the artificial. True mum. ful women be made and exposed on mies were disinterred from the valley the city walls. He then caused a of the Nile and forwarded to Europe message to be sent to the wife of the Mongolian leader to the effect that these attractive maidens were intended as a present to her husband. The saving or curative principles of those ruse was entirely successful. The piege was raised forthwith and Maobeen preserved and held intact by the tun was removed out of the temptation zone by his apprehensive spouse.

## A Curious Custom.

In Scandinavia the wedding shirt is an important part of the husband's marriage outfit. It is usual for the groom, among other gifts, to bestow upon his bride a prayer book. In reciprocation she gives him a neatly embroidered shirt, and this he invariably wears on his wedding day. Afterward received, among numerous gifts of he puts it away and does not wear it various sorts, golden chests contain. again while alive, but he wears it in his grave. The Scandinavian widower ir nummified human members. In his grave. The Scandinavian widower 1809, when Princess Charlotte of Eng. must destroy, on the eve of his second land was sick, her. doctors adminis. | marriage, the wedding shirt which his first wife gave him.

## Mosquito Eggs.

The eggs of the mosquito are fastensynthetic mummy. According to that ed together by a viscid secretion from prescription, the man selected was of the insect's body. From 250 to 300 tender flesh and fine, thin skin-a eggs are laid at a time, and the little man whose chief nourishment had beat shaped mass is so constructed been fruit. At the age of thirty years that it will not a erset. It cannot be his throat was cut and his body, while | sunk nor in any way injured by wind, still warm with life, was placed in a rain or water. It is abandoned by stone urn filled, save for the space the insect, and the eggs are hatched required for it, with honey and with by the heat of the sun or atmosphere. balsamic substances. The full urn A temperature below freezing is said