

# Health

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# & Happiness

## LOOK AT THIS MAN

A few weeks ago he was a stone under weight—thin—lacking in energy. Now he is no longer thin but well built, with pounds of healthy flesh, which makes him LOOK better and FEEL better.

### IF YOU ARE THIN & SKINNY

You too can build up your body and put on pounds of healthy flesh if you take Vitafos, the famous body builder. Vitafos builds up both men and women. It makes thin, skinny men **WELL BUILT & STRONG**. It develops flat chested bony women giving them **BEAUTIFULLY FORMED BODIES**. With it you can gain health, strength and a better appearance.

Send now for a supply of Vitafos, and in a few weeks you will be a different person—no longer skinny—no longer weak, but stronger, well built and with a better appearance. Don't let any failure in the past stop you from taking Vitafos, for it is a **REAL BODY BUILDER** & cannot fail to give you the extra flesh you need.

Per bottle Rs. 5-50.

Six bottles Rs. 30.

Three bottles Rs. 15-50

Postage, etc., extra.



Read what Satisfied People Say

"I have gained 18 lbs. and my appearance has improved." G. WESTON.

"I weighed only 7 stone when I took Vitafos and now after two months I weigh 9½ stones & feel stronger." L. PHILLIPS.



## Amazing Hair Discovery

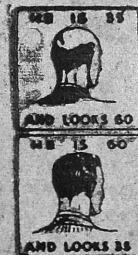
Re-grows new hair on bald spots

Restores natural colour to grey hair

Do you suffer from falling hair and dandruff? Are bald patches or grey hair making you look older than you are? The amazing hair tonic Restora brings new hope to all, for it revives healthy hair growth by feeding and stimulating the hair roots giving them the missing elements of nutrition which is the real cause of falling hair, etc.,

Start using Restora and let your mirror prove results. Your hair will stop falling out, dandruff will go, bald spots will be gradually covered with new hair, and grey hair will get back its natural colour.

Per bottle Rs. 5. Three bottles Rs. 14. Postage, etc., extra.



The British Chemical Works

Post Box No. 472  
MADRAS-7



## BEST QUALITY RUBBER PREVENTIVES

These rubber preventives are the **Best for Family Limitation** because they will not let you down by breaking during use, which often happens when cheap rubber preventives are bought. Further, we send you only **Fresh Stock** and all articles are carefully tested before despatch. So, get your requirements from us and be sure of satisfaction.

**AMOUR** superfine quality preventives. Specially made for men who want the best. They are extra thin and strong and so soft and fine that they are not felt in use. Will last extra long in hot climates. Guaranteed to be without holes and flaws and not to leak or split when used.

Extra special quality, per dozen Rs. 25,  $\frac{1}{2}$  dozen Rs. 13,  $\frac{1}{4}$  dozen Rs. 7.

**VELESTRA** extra fine quality preventives for men. These are so thin, soft and fine that they are not felt in use. They will not leak or split as they are without holes or flaws.

Dox. Rs. 20,  $\frac{1}{2}$  doz. Rs. 11,  $\frac{1}{4}$  doz. Rs. 6.

**Neverrip Preventives** for men. Good thin quality imported from England. Men who cannot afford the best will find these satisfactory. Dozen Rs. 12,  $\frac{1}{2}$  dozen Rs. 6-50.

**Silktex preventives** for men. Thin quality imported from America. One dozen Rs. 6-50.

**Grecian Caps** for men. These caps are about 2 $\frac{1}{2}$  inches long and they cover only the G-P. They allow natural union and yet prevent conception. Dox. Rs. 20,  $\frac{1}{2}$  doz. Rs. 11,  $\frac{1}{4}$  doz. Rs. 6.

**New Type Preventives** for men have a special fitting at the end which is very effective. They are different from French ticklers. Dox. Rs. 25,  $\frac{1}{2}$  doz. Rs. 13,  $\frac{1}{4}$  doz. Rs. 7.

**F. T.'s** For men. These have rubber ticklers at the end and are very popular with men. Dox. Rs. 20,  $\frac{1}{2}$  Doz. Rs. 11,  $\frac{1}{4}$  doz. Rs. 6.

**Crocodile Preventives** for men. These are made with slight ridges like crocodile skin. They will not leak or break and can be washed many times. Superior quality. Dox. Rs. 30,  $\frac{1}{2}$  doz. Rs. 16,  $\frac{1}{4}$  doz. Rs. 9.

**Duro Sheath** for men. Made of fine quality latex rubber. Will not break and will last months in the hottest climate. Can be washed and used many times. Best quality. One Rs. 5, three Rs. 14.

### SPECIAL SAMPLE PACKET

of 10 different preventives for

**Rs. 15.**

We give you here amazing value in this sample packet to prove that you will obtain better value and goods from us. The packet contains the following preventives.

- |                  |                  |
|------------------|------------------|
| 2 Amoura         | 1 French Tickler |
| 2 Velestra       | 1 Grecian Cap    |
| 1 New type f. l. | 2 Neverrips      |

1 Crocodile preventive.

**Full Privacy.** Send value plus Rs. 1-50 postage, etc. (also bank commission if a cheque is sent) and we will be able to send the parcel without our name on it.

**Bon Ami** check pessary for women. Improved type. Recommended by birth control authorities because it absolutely prevents conception. Three sizes, new superior quality. Price Rs. 7-50 each

## The British Chemical Works

Post Box No. 42

198405

MADRAS 7, India.



# CURE SKIN ERUPTIONS THRO' THE BLOOD



**CURED THIS  
PERSON OF SKIN  
DISEASE AFTER**  
many ointments and blood  
cleansers had failed.

**READ  
HIS  
TESTIMONIAL**

Dear Sir,

I had suffered for five years with Eczema on my hands and had tried all kinds of ointments and blood tonics but they did not give me any relief

A friend remarked about the state of my hands one day, and asked me if I had tried Zemro Blood Mixture as it was very good

After three bottles of this blood mixture, my hands are clear of all the sores. I feel that I must recommend your blood tonic to all my friends as it has done for me that which no other tonic or ointment could do.

R. N. BANERJEE,

P. O. Suri, Birbhum Dt., Bengal.

## Now Remove Your Skin Eruptions

### BY TAKING THE SAME REMEDY

Zemro Blood Mixture is a real blood cleanser, formulated by a Specialist to cleanse the blood of impurities, etc., every time it is taken. It cures pimples, acne, bad skin sores, etc., by removing the impurities causing them. It smashes gout, rheumatism, etc., by freeing the blood and joints of uric acid. It gets rid of leucoderma (white patches) by removing the cause of this disease. That is why Zemro always cures when other remedies fail and why it is the best for you.

Follow the example of thousands of skin and blood sufferers who have cured themselves through Zemro. Ignore lesser remedies which will only prove a waste of money. Zemro offers you a sure cure for whatever skin or blood disease you suffer from. Put its efficacy to the test by getting 3 bottles. The good it will do you, will give personal proof that it is a real blood cleanser.

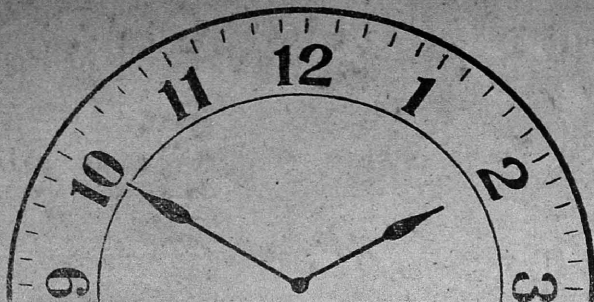
**WHEN YOU TAKE ZEMRO YOU  
ARE ON THE ROAD TO SKIN HEALTH**

New improved formula gives  
wonderful results

1 Bottle	Rs. 5-0-0
3 Bottles	" 14-0-0
6 Bottles	" 27-0-0

If you suffer from any skin or blood disease, write for this free booklet—  
"How to Cure Skin and Blood Diseases Permanently." It gives full information  
and the best way to get a lasting cure.

**The British Chemical Works :: Post Box No. 472  
Madras-7, India**



## TURN BACK THE HANDS OF TIME

### Get back the vigour and strength of your best years

After 40 years of age, sometimes earlier, the glands of your body slows down the manufacture of vital hormones. The result is decreased vigour, reduced vitality, weakness, impaired health, etc.

Vigotone acts directly on the glands of your body and increases their vigour and activity, so that they again produce a full quantity of the hormones needed by the body. Soon your vitality and vigour increases; you feel many years younger and every symptom of weakness disappears. Vigotone is not a temporary stimulant or just another tonic, but a special invigorator for the lasting restoration of vigorous manhood. It never fails to restore and increase the vital force of the body and is very good for loss of vital power, Premature Aging, Weakness and Debility.

Try 3 bottles of Vigotone and feel the new vitality and power it puts into you. This will prove to you that it is a real rejuvenator for men.

#### Read these Testimonials

Mr. J. D. (Calcutta) ".....I have taken 12 bottles of vigotone, and I am longer weak and run down. you can publish this if you do not use my name and address....."

Mr. L. W. (Jamshedpur) ".....I have obtained real benefit from Vigotone, for it has cured me and given more vigour....."

Mr. V. S. (Bombay.) ".....my doctor recommended Vigotone to me, and I have been taking it for the last six weeks with good results."

Don't let past failures with useless medicines hold you back from a proper cure. Take Vigotone and it will increase your vigour week by week until vigorous manhood is restored.

New improved Vigotone gives very good results. Prices:—One bottle Rs. 7.50 Three bottles Rs. 22; Six bottles Rs. 43 and Twelve bottles Rs. 84, postage, etc., extra. We give a free bottle of special Muscula with every six bottles of Vigotone. Also Vigotone for women: Prices as above.

#### Free Booklet.

If you have lost vital strength and vigour, or if you have noticed symptoms of weakness, write for our free booklet about Vigotone.

## The British Chemical Works,

POST BOX NO. 472,

MADRAS-7, India



# HOW YOUR NERVOUS SYSTEM WORKS

An incredibly efficient and complex system of communications that dwarfs any made by man.

By J. D. RATCLIFF

WE ARE awed by the complicated tangle of wires in a large telephone cable; marvel at the efficiency of a communications system that completes a call from London to Melbourne in a few minutes. But we are inclined to take for granted a communications system that is far more extensive and infinitely more complex—our own nervous system. Day and night millions of messages pour through its billions of cells, telling the heart when to draw in air. But for the links which it provides, our bodies would be more masses of chaotic individual cells, each cell going its own independent way.

Consider the sensory nerves—which tell us whether a steak is tasty, a piece of music pleasing, a view inspiring.

The tongue has 8,000 taste buds, each with its nerve connection to the brain. No one knows exactly how these taste-bud receptors work, but present-day thinking suggested that particles of food fit into them like light plugs into sockets, closing circuits and sending electrical impulses to the brain interprets them, then arrives at a judgement: the potatoes need salt, the orange is sour, the lamb chop is delicious.

The ears have 100,000 auditory cells. Minute nerve ends in the inner ear pick up a particular sound frequency and start vibrating—weaving like wheat in the wind. A current is generated. It may be so feeble that it has to be amplified thousands of times before it can be detected; fed into the brain, it is identified as a musical note. Or a medley of sounds may enter at the same time, to be instant-

ly recognized as a friend's voice, a train whistle, the bark of a dog. Thus we hear *with* our ears but *in* the brain.

Each eye has 180 million light receptors which send group impressions to the brain. We see the lovely spring foliage *with* our eyes, but it is the brain that gives us a feeling of joy and appreciation. Sometimes the eye nerves play strange tricks on us. We bump our head in a dark room and there is a blinding flash of light—we "see stars." What has happened is this: the bump has stimulated the optic nerve to send electrical impulses which the brain interprets as a flash of light.

The skin contains a vast net work of receptors. If a hot object is pressed against the skin, some of the 30,000 "heat spots" will give warning of danger. The skin has 250,000 cold receptors, and something like half a million tactile (touch) spots. Step under a cold shower and cold receptors flood the brain with messages: the body starts shivering, skin arteries dilate, a new blood supply hurries to provide more heat. If the room is too hot, heat receptors notify the brain, and three million sweat glands starts a flow of cooling perspiration.

The brain pays little attention to messages from only a few receptors. A hot needle can be pressed against the skin with no great discomfort. But press an equally hot iron against it and a general alarm goes out. That's why it's dangerous to test a body's bath-water with only your fingertips. The water may not be too hot for your fingers, but can

be highly uncomfortable when receptors all over the baby's body may spring into action.

In the main, the function of nerves is to prod muscles into action. But they also have a mysterious ability to dampen or inhibit motion. Otherwise when we moved a leg to take a step it might continue to rise as if we were kicking a football. During sleep, apparently, this dampening effect becomes dominant, pervading the entire brain. This accounts for the occasional paralysis of terror in dreams: we want to cry out but leaden legs refuse to move.

Nerve cells have characteristics which set them apart from all others. Most body cells reproduce themselves by simple division: a cut fingertip heals itself; hair finger-nails and toenails push themselves out constantly as cell division progresses. Nerve cells follow no such pattern. We have our lifetime's supply at birth, and once a nerve cell is destroyed it is destroyed for good—although subsidiary nerve channels may establish pathways round the damage.

Individual nerve cells look somewhat like tadpoles, with large cellular heads and long filamentous tails. The cellular head is the critical, non-replaceable part of a nerve; the tail can degenerate itself if cut off or injured. Generally, these heads are located in the brain or spinal cord. The tails, or nerve fibres—which may be of microscopic length or as long as three feet—are bundled together, often by the thousand, into nerve trunks which can be as big in circumference as your thumb. From the brain and spinal cord these nerve trunks branch out into the extremities of the body.

There are several main divisions of the nervous system. The autonomic branch governs such "automatic" functions as digestion, breathing and the heartbeat. It is divided into two parts: the sympathetic system, which generally stimulates actively, and the parasympathetic, which

generally retards it. If the body were entirely under the control of the sympathetic system, the heart, for example, would race itself to death. If entirely under the parasympathetic, the heart would stop. The two must be in perfect co-ordination. When quick energy is needed in times of stress, the sympathetic gains the ascendancy, speeding up heart and lung activity. In sleep, the parasympathetic lays a calming hand on all bodily activity.

Presents evidence indicates that these two delicately balanced systems are small chemical-manufacturing plants. The parasympathetic system produces an incredibly potent drug called acetylcholine. The sympathetic system produces an equally potent drug, adrenalin.

We are kept active, breathing, by infinitesimal bits of these to chemicals which, immediately they have served their purpose, are destroyed. This awesome, extraordinarily complex activity all takes place in a twinkling—perhaps a thousandth of a second—every time our eyelids blink.

Motor nerves—the nerves which govern such voluntary actions as walking, talking, chewing—appear to work in another manner. When the brain sends out a message ordering an arm to be lifted, a tiny electric "shiver" starts out from the brain through motor nerves. The impulse is so small that it would never reach the arm but for the fact that every few centimetres along the nerve fibre there is a "relay station" which re-charges the dying current, so that the impulse arrives at its destination with exactly the same value as it had when it left the brain. This elaborate sequence also takes place in a twinkling: messages are transmitted through nerves at over 200 miles per hour.

People sometimes complain of "frayed" nerves. Actually, nerves aren't responsible for feelings of tension. Emotional conflicts in the mind are the case. A

troubled brain may send out electrical impulses which result in a large a secretion of stomach acids, leading to ulcers. Or it may order the tightening of muscles in blood-vessel-walls, which leads to high blood pressure. In these situations the nerves, like telephone wires carrying bad news, are imply acting as a communications system.

Occasionally, however, nerves to get out of order. One of the causes of hiccups, for example, is irritation of the respiratory nerves. Shingles, an accurate inflammatory skin disease, is the result of irritation or infection of the sensory nerves.

As research workers have gathered more and more facts about the nervous system, doctors and surgeons have put this new knowledge to work. Nerve repair is perhaps the most exacting of all surgical arts. In accidents, nerves are often severed and have to be rejoined if a hand, arm or leg is again to be useful. The nerves to be sewn may be no larger than a hair and must be sewn with still

finer suture materials. Working with a magnifying glass and filamentous silk or linen, skilled surgeons are often able to do this job.

When injury is so extensive that nerve ends cannot be pulled together, the answer is a graft, borrowed either from the patient's body or from a "bank". Such grafts do not grow; they merely from a bed on which the nerve fibres regenerate themselves. One of surgery's most rewarding sights is to see life return gradually, over a period of months, to a limb thus repaired.

Research workers still face a host of unanswered questions about nerves. They are unable, for instance, to explain what a tickle is. Nor do they clearly understand some of remarkable reflexes with which we are borne: how the new born

When we reach a complete understanding of the nervous system, we shall be close to understanding a supreme riddle of the universe: how that mass of cells known as man manages to behalf like a human being.

## JUST S-Q-UE-E-S-E IT OUT!



ONE OF the lesser known miracles of our modern machine age is the change in fabricating methods that have occurred in many kinds of manufacture. In particular, the enormous use of high-pressure presses for forging, squeezing and extruding metals, bears examination. Few people realise how many items that they use—and will use—depend on a principle best exemplified when you squeeze a toothpaste tube and watch the ribbon of paste emerge in the shape determined by the hold in the top of the tube. This same principle applies to metals, exactly!

At present, almost all metals with the exception of certain alloys of steel, can be extruded or squeezed through dies to give them a form and shape. And this can be

done cold! Thus if you want an aluminum beam for aircraft wing-spars, let's say, you just squeeze it out of a huge hydraulic press as you'd squeeze a toothpaste tube! It's that easy.

The Germans, in their re-armament for the Second World War, pioneered in the use of these gigantic metal squeezers. After the war, the Soviets captured and removed the largest hydraulic press in the world, but we also managed to get several huge ones which we've set up here in this country and they're busy turning out components for rockets and planes.

Making shell cases of steel by taking a slug of that metal and punching it a few

(Continued on page 8)

# THE ORANGE CURTAIN

ONE OF Man's most persistent and irrepressible enemies outside of the rat, is the cockroach. This denizen of the insect world can endure almost anything, is repelled by practically nothing, and is extremely hard to destroy. He is exceeded in his voraciousness only by his ugliness. For a long time, scientists have been trying to dislodge him from his eminence in the pest world. Some thinkers have come to respect the power of this insect so, that they have suggested that some time in the distant future after Man has destroyed himself, the cockroach will overcome the will by sheer hardness. Perhaps they may not be wrong!

A mysterious agent has appeared on the side of the Humans in this never-ending war. The Osage orange tree has been known and used for a long time. Bow-makers found it highly valuable for bows, and farmers have long used it as a rough, tough hedge. The Osage orange tree also bears an inedible fruit, a little bigger than an ordinary orange and quite pulpy inside.

By chance, a scientist found that cockroaches cannot stand the presence of the Osage orange fruit. Simply bringing a blossom into a room invested with cockroaches, will drive them away into another room. Putting the fruit around other rooms will drive the cockroaches from the entire apartment. Exactly what the mechanism of distaste is, is as yet unknown, though it is suspected that a heady vapor or scent emanates from the fruit and literally "tear-gases" the cockroaches away. Some volatile oil causes this no doubt.

Efforts are being made to develop concentrates and distillates of this oil. It should prove a boon to restaurant owners and those who run public establishments everywhere, for the cockroach seems to be a natural seeker of these places. A lot of effort is being devoted these days to destroying the insect world which has taken up arms against Man. And from the

success of the campaign, we suspect that it will be no insect which crawls from the eye-socket of the skull of the last man on Earth. Whatever it is—it won't be an insect! \* \* \* —TOM LYNCH

## New plant makes sea water drinkable

A new type of distilling plant for producing pure drinking water from the sea has been developed by a British firm.

The plant design is based on an exhaustive series of tests conducted under industrial operating conditions on large-size test rigs, using sea water. Operating methods have been developed which permit the plant to be run continuously without being opened for cleaning and without loss of output due to scaling.

Designs for outputs up to 1,000,000 gallons per day in one unit are available.

An order for a unit of this type has recently been received by the British firm for installation in a refinery in Ecuador, South America.

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(Concluded from 7 age)

time in a hydraulic forging press, produces a simple finished product faster than any other way. It is incredible to see a flat slug of steel squeeze up and flow around a die just like so much soft biscuit dough. But it does, Copper, aluminum magnesium and all the other relatively soft metals flow as easily as spaghetti from extruding machines. Working steel is a little harder, but it can be done.

Some time ago we reported on a huge furnace which produced steel beams and cylinders in almost a finished form. This is another clue to the metals revolution which is taking place. All industrial efforts are tending toward making manufacturing a continuous flow process instead of a unit operation. The idea of the assembly line or continuous chain is stealing into every sort of industry from making pretzels to rocket engines!

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# HIS TOOLS MEND DAMAGED HEARTS

Karl Kapp's artistry as a toolmaker has made possible successful surgery of a type never before attempted.

By WILLIAM DINWOODIE

Seen At WORK in his small machine shop, close to the business district in Cleveland, Ohio, Karl A. Kapp would hardly attract a stranger's attention. Ceiling lights pick out the silver in his thinning blond hair, the smudges of grease on his apron, the calluses on his long, thin fingers. He looks much like any other worker.

But heart surgeons in all parts of the world refer to Kapp as "an artist in the creation of surgical tools." Through his work, they say, thousands of persons, who seemed about to die, are now living normal, useful lives.

What is the secret of Kapp's success? How does he differ from other toolmakers?

I had partial answers to these questions from Dr. Claude S. Beck, internationally known professor of cardiovascular surgery at Western Reserve University Medical School. The rest I learned from Kapp himself.

The story has its beginnings in the quaint old city of Tuttlingen, Germany, where Kapp served a four-year apprenticeship with the surgical instrument firm of Jetters and Scheerer.

Coming to the United States in 1927 he quickly found work as a grinder and toolmaker. But when the depression struck, jobs became increasingly hard to get. Without work and with no immediate prospects, Kapp opened a shop for the repair of surgical tools in the garage at the rear of his home.

DRUMMING up business was difficult at first. Few hospitals were willing to entrust their repairs to a youthful emigrant who spoke with a strong German accent. To each one, Kapp made but one plea: "Give me a chance. If my work is not satisfactory, don't pay me."

Gradually, as the quality of Kapp's work became known, new orders came in. He was well established when he first met Dr. Beck at the Medical School in 1938.

As the months passed, the two men became friends, and Dr. Beck disclosed that he was making experiments with dogs that promised much in the fields of brain and heart surgery. But progress would be slow, he added, if new tools and new techniques were not developed. Kapp agreed to work with the surgeon in his spare time.

IN THE YEAR that followed, the toolmaker spent many nights in the laboratory. He would watch Dr. Beck operate on a dog, and then he and the surgeon would discuss the problems that had been encountered, the type of instruments that would be needed if the difficulties were to be overcome.

Kapp's main concern, in the beginning, was the development of a suction tube with a connection that would keep the blood being drawn from a cavity in the brain from flowing too freely. Numerous instruments were made and discarded before Dr. Beck was satisfied that a connection had been perfected that would cause no damage to the brain tissues.

Tried on men and women patients, the instrument proved an instantaneous success. It is now being used widely by brain surgeons everywhere.

From brain surgery, the interest of the two men turned to operations on the heart. Until recent years, the heart was considered a remote and virtually inaccessible organ except at autopsies. Persons with heart disease from malformations at birth or depredations of age had little hope of cure. They were treated with medications and told to limit their activities.

Dr. Beck held to the view that opening the heart to surgical treatment should be as easy as opening the hood of an automobile. Kapp agreed with the surgeon. Together they gave of their spare time and cash in perfecting instruments that would help them to meet the problems.

First success came to them in developing threaded needles, some extremely pliable, that would repair leakage of the heart. After numerous experiments with dogs, Dr. Beck invited Kapp to witness an operation on a middle-aged man.

\* \* \*

**S**TANDING UNDER the brilliant light above the operating table, the tool designer watched the surgeon open up the left side of the patient's chest. He leaned forward anxiously as Dr. Beck began sitting the break in the damaged organ. When the operation was completed, the surgeon caught the eye of his associate and nodded briefly. It was the signal Kapp had been waiting for. In that moment he knew, as Dr. Beck knew, that medical history had been made in the past hour.

Of even greater interest to surgeons are the operations by Dr. Beck in grafting the aorta to the sinus, thus bringing red blood back into blood-starved veins in the heart. To make the operation possible, Kapp developed a plunger-type instrument with a revolver-like trigger that makes a clean round hole when its pointer comes in

contact with flesh. Dr. Beck makes holes in the vein and artery and stitches the two together where the holes meet.

Latest instrument to be developed by Kapp is a cutting device that resembles a thimble and fits over the index finger. Surgeons use it in clearing away the heart's mitral valve of excess calcium. They simply put pressure on the thimble and allow the teeth on its under side to cut through the barrier.

For all of these achievements, Dr. Beck has won acclaim throughout the world. But what of Kapp? How much of the credit should be shared by the quiet-spoken, rather shy tool designer?

Said Dr. Beck: "I couldn't have gotten along without Kapp. His skillful work has made it possible to perform operations that were never attempted previously."

Then, after a moment's pause, he added: "Few persons realize it, but surgeons are as dependent on the development of new tools as industry. I only wish it were possible to set up a fund that would enable Kapp to devote his full time to research in designing surgical tools."

Nearly all heart specialists in the United States use Kapp's instruments, and they are increasingly popular in Canada and Europe.

Within the past year he has sent full kits to hospitals in Montreal, Paris, Copenhagen, London, Havana, Edinburgh, and Berlin.

Asked if it didn't give him a great deal of satisfaction to see his instruments going out over the world, Kapp looked away toward an open window and quietly remarked:

"I'm happy to think that I can be of some small service to others. That is all that really matters."

I'd found the key to the humble tool-maker's success.

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# FEMALE SNAKES STORE LIVE SPERM

Female snakes are far ahead of the scientists who have recently discovered how to store semen at low temperatures for artificial breeding. The cold-blooded reptiles store it at body temperature.

The practice of snakes to bear young for years following their isolation from males has been known to biologists for a long time, but they could never understand how it was possible. The technique has been called "delayed fertilization."

Now a professor of anatomy has revealed that a female snake has specialized

structures in her reproductive tract which apparently act as semen storage receptacles. Dr. Wade Fox, of the Louisiana State University School of Medicine, reported that large numbers of these receptacles, which have the form of tiny, multiple-lobed sacs, open into the anterior ends of the oviducts by small canals.

"In many of the snakes that have been examined each of these small sacs has been found to contain sperm lined up in orderly fashion with all of the heads in the same direction," he said.

## PROPER SPACING HELPFUL

New Delhi: The spacing between pineapple plants and between rows differs in different areas, depending upon the method of planting adopted.

Experience points out that the most convenient spacing to adopt is at least three feet between plants and six feet between rows.

Such a spacing gives a chance for full development of the plants, and also makes cultural operations and the subsequent picking of fruits easier.

In a closely planted plantation, particularly with varieties like *Queen* which suckers profusely, the gathering of fruits becomes a difficult and painful work. Also, proper spacing facilitates re-planting of the interspaces which is to be done after every four or five years.—ICAR

## RAINDROP CLOSURES WINDOW

Ever dream about a window that would close itself when it rains? If so, Micro-Moisture Controls, Mineola, N. Y., has something to tell you. Its Weathervane Venetian window is of the jalousie type and is equipped with a simple grid connected to that electrical circuit in the home. The first raindrop to strike the grid closes a circuit that causes the window to close automatically. When the rain stops and the moisture on the grid has dried, the window re-opens.—

Commerce

## SELF-HONING SAW BLADE

Skil Corporation, manufacturer of portable power tools, has placed on the market a new self-honing saw blade. The blade cuts two ways—in either direction of rotation. The two-way cut and self-honing result from a new design in saw tooth form.

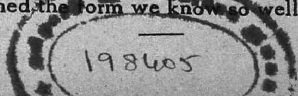
The blade is used in one direction of rotation until the cutting edges of the teeth become dull. The blade is then reversed in the saw. As the blade cuts in the new rotation, the cutting edges used in the original rotation are automatically honed to a new sharpness. It is made in sizes of 5½", 7½" and 8½".

## EARLY RINGS

Long before man could write he expressed himself in hieroglyphics, in which the circle represented eternity, and the very first ring is said to have been a cord of rope woven by primitive man, and tied by him around the waist of the woman of his choice.

Variations of this original and rather inconvenient method passed through several stages—the armlet, for instance, or fettered hand of marriage by captere, and then wedding rings made from leather, straw, wood, jet and bones, until it finally assumed the form we know so well.

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# CAN IMPOTENCE BE CURED?



By DR. W. SLOANE, M.D.



**E**VERY year many men become dismayed by the appearance or sexual weakness impotence sexual neurasthenia when they should still be at the peak of sexual potency. Some of them get back their sexual vigour by proper treatment; others continue to suffer from increasing weakness until they become seriously impotent.

Impotence is a disorder which appears in all ages from early youth to old age. Its main symptoms are weak erection of the penis (which may range from some weakness to almost no power of erection) and premature ejaculation. It is a distressing weakness for it prevents proper sexual intercourse, and is the cause of many unhappy marriages.

Man has for ages sought a cure for impotence, but with very disappointing results. The many remedies that have been used to cure the disorder proved, useless in all cases and even injurious in some. Nothing could be done in the past to effectively replace impotence with sexual vigour, and impotent men had to resign themselves to life of impotency.

Impotent men need not suffer from sexual weakness any longer for medical science has come to their aid and found the answer to impotence. It was known for some time that sexual strength depended upon the vigour and activity of the sexual glands in the testicles (which produce a hormone to maintain sexual power at full peak) but nothing could be done to restore vigour and activity to these glands when they become weak and inactive and impotence set in until medical science discovered the value of gland extracts taken from the sexual glands of healthy animals. Prof. Brown Sepuward,

and other doctors found that an active extract of the sexual glands (gonads) administered to impotent men vigorated the sexual glands in their testicles to new activity, for in almost every case there was a strong revival of sexual power.

Tests carried out by research doctors again and again proved the value of the sexual glands extract (known as Orchitic extract) for impotence in men. Impotent men treated with this extract often got back their sexual power. Even better results were obtained when it was used with other extracts from the spinal cord and prostate gland plus certain drugs which have a strong invigorating action on the sex organs. This combination produced a great increase of vitality, and a remarkable return of strong sexual power in middle aged and weak men. Even older men recovered much of their vitality and power when treated with it.

Men who have lost sexual strength, even those who have been impotent for years, can now definitely get back their sexual power. To get best results, they should seek medical advice and take only a dependable medicine which combines the potent gland extracts with the invigorating drugs. If they do this, they will get back full sexual power and be virile again. By using a special appliance any deformities of the penis can also be corrected, and a small penis can be developed until it is normal in size.

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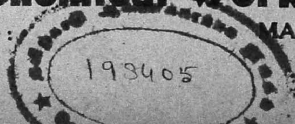
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