

THE EVENING TIMES-STAR, ST. JOHN, N. B., MONDAY, JULY 28, 1924

## ARTIFICIAL KIDNEY TO WASH POISONS OUT OF THE BLOOD

Article by New York Doctor,  
Formerly of New Brunswick.

A remarkable mechanical apparatus that will draw off blood from the human body, wash it and return it to the system again is described in an article in the New York Times by Dr. Van Buren Thorne, former Kings County man now holding a high position on the staff of the big metropolitan newspaper. Dr. Thorne's article is as follows:

"When anything becomes fouled or contaminated, the obvious procedure is to clean it. The cleaning act is simple enough when the object of attack happens to be a dish, a pane of glass, or one's shoe. But the proposal to take all of the blood out of one's body and submit it to an overhauling in order to remove undesirable substances is a procedure well calculated to arouse amazement. Yet the thing is quite possible; indeed, its practicability has already been established experimentally in many animals, thanks to American ingenuity. These animals have not suffered, and the blood temporarily removed has been returned to the circulation as good as new.

"This 'washing' of the blood is accomplished by means of a remarkable mechanical apparatus devised by Dr. John J. Abel, the distinguished physiologist of Johns Hopkins University and his associates in the laboratories of the Medical School there. They have named this device the 'artificial kidney,' because its selective action is based on that of the normal kidney.

"Its practical application as a remedial agent aims at the extraction from the blood of such foreign substances as the mineral poisons—bichloride of mercury, for example.

"It is not recorded that Dr. Abel and his co-workers have tried to use the artificial kidney in the endeavor either to save human life or to improve the condition of human patients. That was their ultimate object, when the European war set everything awry. They had used it, however, on dogs weighing up to fifty pounds, and ten years ago they were engaged in constructing a machine capable of handling a body weighing 200 pounds—which, of course, meant man himself. The war temporarily put an end to this work.

"A few days ago, however, the authorities at Johns Hopkins received word that German scientists were preparing to use Dr. Abel's invention in cases of human poisoning by bichloride of mercury, and for other purposes. They expressed the opinion that many lives could be saved that otherwise would be lost.

"Since the immortal Harvey discovered the circulation of the blood, every heart pump has been designed to pump the blood into the arteries, which carry it to the capillaries, from which it gets into the veins, which finally return it to the heart. The idea of the artificial kidney was that it would be simpler than to tap a large artery, allow the blood to flow into some kind of receptacle, where it could be dealt with, and return it to the body by means of a large vein which had also been tapped? It sounds simple enough, but this is exactly what the experimenters did. But the actual procedure was far more complicated than it sounds, because so many delicate substances had to be taken into consideration.

"For instance, something had to be put back into the body to take the place of the missing blood and so maintain an encephalic balance of the animal. That part was easy; scientists long before had determined that a salt solution, properly proportioned, could very nearly take the place of blood; indeed, what is known as a 'normal-saline solution' is frequently injected into the veins of those who have suffered extensive hemorrhages.

"The explanation of how this saline solution gets into the veins to replace the temporarily absent blood rests on a brief description of the artificial kidney itself. Its outer surface consists of a glass cylinder, and this contains a system of tubes, one part of which is connected with the tube, or cannula, which has been tapped and thus allows the blood to escape from the body. This is the receiving end.

"Another part of the system of tubes serves as the exit, since it is connected with that tube, or cannula, which is inserted into the vein by which the blood re-enters the body. Now, before

circulation is established in the apparatus called the artificial kidney, the system of tubes is filled with salt solution. The blood starts through the tubes; it pushes the salt solution ahead of it; the salt solution enters the vein. As soon as the system of tubes becomes exactly filled with blood (one-third of the amount of blood in the body) it follows that a corresponding amount of salt solution is actually within the body of the subject of the experiment. 'Dialyzing' impurities.

"So far, so good. But what about cleansing the blood of its undesirable diffusible constituents? The system of tubes is made of a porous or dialyzing substance called celloidin. These tubes have the convenient quality of being permeable to certain solids, among which are mineral poisons and other substances which it is desirable to be rid of, and these pass through the pores of the celloidin. The blood does not want disturbed. In this manner, then, all of the blood in the body can be removed, cleansed and returned.

But there were other difficulties that had to be considered. Well might one ask: Suppose other substances in the blood which it is necessary or desirable to keep there should escape through the porous tubes into the surrounding solution—how is that guarded against? The investigators foresee this contingency and provided for it. Knowing the amounts of such substances which the blood normally contains, they simply dissolved equal amounts in the surrounding solution so that it could neither yield to nor take from the blood anything which the experimenters had decided in advance they did not want disturbed. In this manner, then, all of the blood in the body can be removed, cleansed and returned.

## BEACH MOBS GRAB LOST LIQUOR CARGO

Rockaway Summer Colonists  
Get Many Cases Abandoned on Sand.

Police Sergeant Masterson of the Rockaway Beach Precinct, says the New York Times, set out yesterday morning to look things over on the sands at the water's edge. What Sergeant Masterson saw caused him to run to a telephone and summon the reserves. His eyes had been upon a mob of about a hundred persons, many of whom were carrying cases of liquor, and fighting for possession of cases of whisky piled high on the sands. Men were being assisted by women in dragging out cases and hustling them to automobiles. Young folk, too, were in the tussle for whisky, and when the mob broke up, the entire water-front, in which flats flew and epithets resounded.

Even the reserves arrived scores of cases originally fought for not more than two hundred dollars in value. Of the hundreds who had stormed the beach only four were arrested.

When the clamor had died away the police learned that a misunderstanding of signals by bootleggers had led the mob to believe that the cases were for transfer to New York. It developed that the entire water-front had been brought ashore and left on the sands to be taken away at dawn by trucks. For half a mile the beach was covered with cases of liquor, and scattered at intervals of fifty to one hundred yards.

Trucks failed to arrive as scheduled. But shortly after dawn the bachelors, going in for a pre-work swim, saw the contraband and the rush was on. Shouts of glee from the discoverers of the entire water-front, and by 6 o'clock the beach was black with colonists dragging cases to their bungalows on the beach and with others who had taken the cases and brought automobiles in which to transport the liquor to their homes further back. Some carried half a dozen cases. Others took one case and called it a day. Many feared to take a chance in carrying away a box and contented themselves with ripping open cases and taking a few bottles.

The four caught by the police said they were Louis Juna of 3242 Decatur avenue, the Bronx; John Green of 435 East Seventieth street, Manhattan; Louis Brodsky of Rockaway Beach and Samuel Cohen of Rockaway Beach. The police said Juna and Green were among the truck drivers who were to have taken away the liquor, but arrived too late. Brodsky and Cohen were colonists. Federal Commissioner Barnore in Brooklyn held the four men in \$1,000 bail each for examination Aug. 20.

The July issue of "The Scots Magazine" still keeps up to the good standard of previous numbers. "The National Theatre Movement" is an article of much interest in the present day. An instructive article "In the Cevennes Without a Donkey" by Robert T. Skinner will appeal to all lovers of the late "R. L. S." "The Edinburgh of Burns and Scott" by the Rev. I. MacLean Watt, still holds the reader's interest, and in "Scottish Army," J. Cameron Black gives us an instructive and the same time popular article on this fascinating subject. Miss M. E. M. Donaldson in "How Gaelic is Ridiculed" gives us instances of the many common misuses of Gaelic in connection with Highland attire and nomenclature.

## MRS. COFFMAN ILL SEVEN YEARS

Saved from an Operation by Lydia  
E. Pinkham's Vegetable Compound

Sidell, Ill.—"I was a nervous wreck. I was suffering from a pain in my left side, which was almost unbearable, and I could not even lie in bed without rest on my body at night. I had been sick for seven years, but not the doctors told me that an operation was all there was left. I would not consent to that, so my husband brought me a bottle of Lydia E. Pinkham's Vegetable Compound and begged me to take it. I have taken fourteen bottles of it and I feel ten years younger. Life is full of hope. I do all my house work and had a large garden this year. I never will be without the Vegetable Compound in the house, and when my two little girls reach womanhood I intend to teach them to take it. I am never too busy to tell some suffering sister of my help, and you can use my name and letter to spread the good news of Lydia E. Pinkham's medicine."

—Mrs. Ida M. Coffman, R. B. 2, Sidell, Ill.

The United States exported more than \$2,000,000 worth of leather in 1923.

## SOME PRANKS A TORNADO PLAYED



These are just a few of the freakish stunts a tornado pulled in Alton, Kas. The picture at the left shows the Episcopal Church minus its front. In the center one sees a load, from some other building, driven into the side of a house. At the right is seen a five-story office and apartment building with one corner entirely gone.

## ELECTRICAL STORM CAUSES DAMAGE

Four Buildings Burned in  
Kings—Fall of Hail  
Hurts Crops.

Considerable damage was done by a heavy electrical storm which swept over the Long Beach on the St. John river and the Kennebecasis valley, three buildings being struck and destroyed at Rockville, near Sussex, and a barn near Apohaqui. The first was owned by Arthur MacFarlane and the latter by James Crawford. Quite a bit of damage was done to the crops by heavy hail.

Lightning struck Mr. MacFarlane's horse barn, which was situated between his house and his cow barn. One horse was killed outright and the barn was quickly ablaze. The fire spread rapidly and within a short space of time the residence and the cow barn had both caught. The rest of the stock was rescued and the furniture and equipment were saved. Mr. MacFarlane carried no insurance and his loss is estimated at between \$6,000 and \$7,000. He had other losses in his farm buildings, but these were saved from the flames.

Horse Killed.

The barn at Apohaqui which was struck by lightning and burnt to the ground was owned by James Crawford and was newly built, replacing another barn on the same location which had been burnt about one year previously. A horse and wagon belonging to Mr. Crawford's brother from Queens county were in the barn and were destroyed.

It was reported that a barn belonging to George Robinson at Urney, about six miles from Sussex, had been struck by lightning and was burnt to the ground but this rumor could not be verified last night.

The thunder could be heard plainly in St. John but the storm did not reach the city, and as far as could be learned yesterday the electrical storm was confined to the lower section of the St. John river and the Kennebecasis valley. Fairly heavy rain fell over much of the province.

The greatest depth of the ocean yet discovered is 31,614 feet, in the Pacific Ocean between Guam and Midway.

## CORNS

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Safe  
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Dr. Scholl's Zino-pads stop corns hurting instantly. Remove the cause—friction and pressure. They are quick, medicated, and easy to apply. Get them at your druggist's or shoe dealer's.

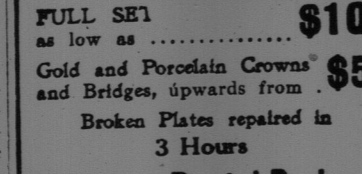
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It has been conclusively demonstrated that a simple home-made tartronic paste applied to the face, will very quickly eliminate wrinkles, worry, care and age marks. You need only mix a spoonful each of powdered tartronic and lemon juice, spread this over your face, then sit down before your mirror and watch the wrinkles disappear. In less than fifteen minutes your face will be as smooth and firm as a young girl's. Suggestive will also melt away, youthful contour will be restored. It's simply wonderful how this harmless mixture works.

The result after the mixture is washed off the face is infinitely better than from the most skillful face massage. And the cost is trifling—less than three cents per treatment. Any druggist can supply powdered tartronic in original packages. So there's no excuse now for any woman looking so old, haggard or careworn.

## BUSINESS LOCALS

SHOWS YOUR GOOD JUDGMENT

When you buy a package of Red Rose Orange Peels, you know your grocer knows you are a good judge of tea.

Dance at Morrisdale Pavilion Tuesday evening, July 29. 18947-7-30

## SATURDAY'S FOOTWEAR FESTIVAL

Many delighted buyers were engaged Saturday at Percy J. Steel's Better Footwear Sale, 311 Main street, selecting boys' highest grade outing boots, men's highest grade outing boots, ladies' delightful white creations from the assortment shown at 95c a pair. You should visit there at once.

## THE MOST LAWLESS NATION.

A committee of the Missouri Bar Association recently investigated defects in criminal law in this country, says the Bangor News. Its chairman made certain recommendations with this association, urging that the law be made more effective by the elimination of technicalities which hinder rather than facilitate justice.

It is hopeful to note, says the News, that lawyers themselves recognize the situation and are taking steps to remedy it. They are seeking simplification of legal procedure and the elimination of technicalities which hinder rather than facilitate justice.

But the public has a responsibility here, too. Education which includes character-building and strengthening of moral fibre is an important means of preventing crime in the first place. Laziness in the public attitude toward crime encourages its perpetration and defective criminal procedure gives the guilty more opportunity to escape the consequences of his evil acts.

Let the lawyers proceed earnestly to educate youth to a more positive sense of honor and decency and moral responsibility.

## ROADS AND MOTORISTS

Motorists on the Maine highways are being questioned, says the Bangor Commercial, as to their destinations and homes and if they are on business or pleasure bent by squads of men who are taking a census of automobile traffic under the joint auspices of the Federal Bureau of Public Roads and the Maine Highway Commission. The object of the census is to obtain definite information regarding the amount of traffic over the given highways and should serve at least two useful purposes.

As a result of the census the public will be informed of the value of good roads to the state and the communities and the highway commission will obtain knowledge as to the sections in which expenditure will most benefit the public, although in this estimate there must be taken into account the fact that motorists are likely to be selecting certain roads because of their superiority over others.

30 per cent. cane sugar, also alcohol and cattle feed, are obtained from the roots of the bulrush, which grows profusely in Germany.

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## SAYS PEOPLE ARE MAKING PEACE

European Situation Analyzed  
as Tenth Anniversary  
of War Draws Near.

(United Press.)

New York, July 28.—The tenth anniversary of the outbreak of the World War finds the allies still spending more time trying to defeat Germany over terms of peace than they did on the field of battle. The Germans, disarmed and at the allies' mercy, are proving more formidable disturbers of a European settlement than when they were in the battle array.

It took a little more than four years to crush the Germans in warfare. It has required nearly six years for the allies to reach a limited and guarded agreement concerning the annual amount of money Germany shall pay as indemnity. Even the total sum is still undecided, for the annual payments have not given a terminal period. Even the method of making Germany pay is still in dispute.

The strangeness of this procedure does not mean that Europe will have to remain forever debating successive "Dawes reports." The repeated failures to make peace are the failures of the professional diplomats. The people of Europe are themselves at peace and are moving with increasing momentum toward restoration of normal conditions, without diplomacy being aware of it.

While European and American experts have gathered in London to continue the futile effort to find a way to keep Germany down and simultaneously let her get up, British financiers are discussing the possibility that Germany may soon establish a new gold standard currency that might supplant sterling's premier position in the international money market. It is extremely unlikely that a gold standard currency will cause the financial centre of the world to move from London to Berlin. Nevertheless, the mere fact that London is making preparations to safeguard itself against such an attack shows how far Europe has traveled back to normal conditions in disregard of the quarrels of the diplomats.

The techniques of trade barriers and raising national budgets show a profit are affairs based on what the people themselves produce. Ever since the ending of the war, the European experts have got into the habit of believing that their figures are real and that they can make prosperity or adversity by a few pencil marks on a slip of paper. But all the experts have been doing has been to find out how the people of Europe are producing faster than the experts can calculate, and it is this fact which holds out such high promise for Europe's rejuvenation.

The reason Germany has baffled the allies in peace far more than she did in war is because peace is creative and war is destructive. There is a limit to destructiveness; but there is no limit to creativeness. The people of Europe are creating by increasing speed which

Moncton, July 27.—Robert Ferguson, aged 18, of Moncton, was drowned while bathing at Point du Chene Saturday afternoon about 5 o'clock. He was a son of J. W. Ferguson, a well known resident of Moncton. The young man had gone to Point du Chene Saturday afternoon intending to return in the evening. He was an apprentice in the C. N. R. shops at Moncton.

The far East is the principal foreign purchaser of playing cards in the United States.

## ELGIN MAN KILLED AT IPSWICH, MASS.

Pettitcodiac, July 27.—The body of George Stewart, who was killed by being thrown from a motor cycle at Ipswich, Mass., on Thursday afternoon last, arrived in Pettitcodiac on Saturday afternoon. He was a son of William A. Stewart, a well known resident of Elgin, and was 21 years of age. He had visited his home at Elgin last spring, returning to the United States in April. He was living at Somerville, Mass. Particulars of the fatality are not available, but as far as can be ascertained Stewart, who was riding a motor cycle, was endeavoring to prevent a collision when some boys were coming toward him on bicycles around a curve. He died with a fractured skull shortly afterwards in a hospital at Ipswich. He is survived by his parents, three brothers, Roy, of Somerville, Mass.; Arnold and Charles, at home; also three sisters, Willena, Pauline and Doris at home.

## LOSES LIFE AT POINT DU CHENE

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DOMINION Battleship Linoleum makes the ideal floor for a busy office. This springy, resilient flooring is durable, yet soft and comfortable. It eliminates the pound, scurry and echo of busy steps and aids concentration by the air of restful quiet.

Banks, offices, schools, hospitals and public buildings and stores of every description are using Dominion Battleship Linoleum. They find it unequalled for durability and walking comfort. Its sanitary qualities are welcomed, too, and the fact that it is so easy to clean, reduces upkeep costs to a minimum.

Properly laid with waterproof cement, Dominion Battleship becomes a permanent floor. It resists the heaviest traffic and never needs expensive refinishing.

Made in four standard shades—brown, green, terra cotta and grey. Special orders for large contracts. Write for free folder and samples.

DOMINION Oilcloth & Linoleum Co. Limited  
Montreal

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