

## RAILWAY INVADES THE CENTER OF MAHDISM



LORD KITCHENER BEAR THE MAHDIST TOMB

EL OBEID was once one of the mystery places of Africa and a danger center of Mahdism. Now it is in railway communication with civilization, for recently Lord Kitchener, in company with the governor-general, officially opened the railway from Sennar and Khartoum to El Obeid.

## GIVEN A NEW BRAIN

**Delicate Organ Is Grafted Into Man's Skull.**

**Dr. Harry Cushing, Noted Specialist, Performs Marvelous Operation Successfully at Baltimore Hospital—Patient Is Recovering.**

Baltimore, Md.—An operation that in the history of science has never had a parallel, either in delicacy or in skill, was performed the other day for the second time in the Johns Hopkins hospital by Dr. Harvey Cushing, the world-renowned brain specialist, and the patient, as a result, is on the road to recovery. It is believed the operation, which until a month ago was thought impossible by the best authorities on brain disorders, will prove a success.

The patient, William Buckner of Cincinnati, came to Baltimore November 23, suffering with a peculiar affection of the brain. For weeks before his arrival he had been in a state of semi-coma, except at intervals.

He was placed under the care of Dr. Cushing. His case was a puzzling one, and after a number of X-ray examinations, during which photographs of the brain were taken, Dr. Cushing discovered that a portion of the brain had decayed and frayed tissues were causing the healthy section gradually to become affected.

Dr. Cushing's conception was this: To procure the brain of another patient as soon after death as possible and to transplant a portion of it into the skull of Buckner. The brain had to be healthy and from as young a person as possible. The transplantation of the dead brain and the procuring of it were two widely different things, however, and this was the difficulty confronting the physician, when one of his colleagues casually mentioned that a child had been born dead in one of the wards.

Here was the opportunity. Dr. Cushing hurried to the ward and extracted the brain from the dead child before the body was cold. Meanwhile Buckner had been prepared for the ordeal.

Then in view of about a score of professors and students, Dr. Cushing performed his greatest operation.

He chiseled away the back of Buckner's skull and with great care removed the entire brain, which was laid on a piece of linen beside the head, and could clearly be seen to quiver as each pulsation of the patient's heart was noted. The diseased portion was then severed from the minor brain and while Dr. Cushing was severing the

diseased section another surgeon was transplanting the infant's brain.

The major brain was left untouched. After the transplantation the member was restored to its former position and the section of the skull which had been cut out also was replaced.

Buckner stood the operation exceedingly well, and it was later thought that he was well enough to leave the institution. With his wife at his side he was removed to the home of relatives in Charlottesville, Va., but a few days ago his condition became grave and he was sent back to the hospital. Dr. Cushing again performed an operation on the brain and replanted the tissues of the newly inserted member. Buckner was said to have been considerably improved.

## SUN ECLIPSE WIRELESS TEST

**One to Be Tried in Paris to Find Out Something About Violet Rays.**

New York.—A series of notable experiments in wireless telegraphy is to be tried in Paris April 23 during an eclipse of the sun, which will obscure four-fifths of its rays. It has been noticed by scientists that the distance over which wireless messages can be dispatched varies greatly, according to the time of day and the direction. A message sent by rapid vibrations which will not carry more than 700 miles during the day, can be sent two or three times that distance at sunset, especially toward the south. When slower vibrations were used it can be transmitted further during the day.

It is believed that these curious facts are due to the activity of the so-called ultraviolet rays of the sun, the theory being that these rays are a powerful factor in the energy of the hertzian waves. The eclipse, when a great part of these rays will be suddenly cut off, will be an ideal occasion for decisive tests, and the wireless station on the Eiffel tower will send messages continuously from a little before the eclipse until a little after it in several directions.

## CIGARETTES, 50 A DAY, KILL

Braddock, Pa.—Ernest Ferrin, a barber, died at Donora from the effects, physicians say, of smoking too many cigarettes. Ten years ago Ferrin began and smoked 50 a day, or 182,500 cigarettes in the ten years. Just before he breathed his last today he asked for a cigarette. One was given to him, and as he threw away the "butt" he sank back on his pillow and died.

## SLAYERS' CURSE STILL WORKS

**Many Who Had Anything to Do With Arrest of Philadelphia Have Met Violent Death.**

Philadelphia.—The prediction made nearly seventeen years ago by H. H. Holmes, the arch murderer, that anybody having anything to do with his arrest, conviction or execution would meet an untimely death, either by their own hands or otherwise, is once again recalled.

This time the victim is Richard Johnson, forty-eight years old, who committed suicide by inhaling gas. Johnson was a member of the jury which found Holmes guilty of murder in the first degree.

Since the execution of Holmes, on May 7, 1896, many persons who had connection with the famous case have either taken their lives or met deaths of violence, their fates recalling the curse of Holmes, better known as the "Murderer with the evil eye."

The fatal seizure of Judge Michael Arnold, who presided over the trial, the deaths by violence of jurymen, witnesses and others, the loss of life or position by officials, the property loss of those who were in business, have from time to time appeared as evidence that the malediction of the criminal of the century was not idly spoken.

Holmes' victims were never counted. He confessed to slaying 47 persons.

Johnson, the latest victim to fall under the so-called "spell" of Holmes, suicided because of despondency.

One of the first to meet death following Holmes' prediction, was Linford L. Biles, the foreman of the jury, who was killed by coming in contact with an electric wire. Later, Howard Perkins, superintendent of Moyssan prison, shot and killed himself. Robert Motherwell, a former superintendent of the prison, also at the county jail when Holmes was there, dropped dead. William Shoemaker, Holmes' counsel, was barred from practice for two years.

## AUTO DEVELOPS THE CHEST

**So Says New York Tailor After Five Years of Observation—Deep Breathing Causes Change.**

New York.—A Fifth avenue tailor, after observing for five years those of his customers who ride daily in automobiles, has come to the conclusion that automobile riding develops the chest. The chest measurements of the average man, he declared, increases at the rate of an inch in two years after he begins to ride in motor cars regularly. The tailor thinks the increased development is due to the inhalations taken while automobiling.

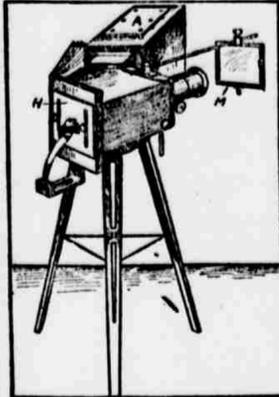
## SCIENCE AND INVENTION



### PICTURES ARE EASILY TAKEN

After Much Experimenting Apparatus Is Perfected That Does Away With Lantern Slide.

Much experimenting to find a way to produce a picture upon a screen from just a photograph, postcard or book, without making the usual lantern slide, has been done and to a



Direct Reflection Projector.

certain extent these efforts have succeeded. The accompanying illustration of a new lantern for this purpose serves to illustrate the method used.

To the regular stereopticon, minus the slide holder, is connected a metal attachment containing a book or picture holder and proper lenses. The light from the arc is focused upon the picture in the holder and the picture itself, acting as a reflector, passes the light on through lenses to a mirror suspended at the proper angle to reflect the rays upon the screen, says the Popular Mechanic.

The apparatus produces clear pictures when located about twenty feet from the screen and displays any colors present on the postcard or picture in the lantern.

### USE RADIUM TO TREAT GOUT

**Special Apparatus Used From Which Chemical Product Is Transported in Current of Air.**

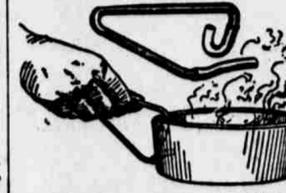
Radium-laden breezes are the latest thing in the treatment of gout. One of the papers read at the German medical congress, which has just been held at Wiesbaden, was on the application of radium in the aerial state. Radium "emanatoria" have been established in Berlin and at Bad Homburg, and now Ems is to have one. A special apparatus from which radium is transported in a current of fresh, cool air is fixed in a room, and the patients have merely to sit in the room and talk or read the newspapers or play draughts; the radium in solution in the air does the rest, and affects the blood through the lungs. This treatment is especially recommended for all gouty ailments. In the recent torrid conditions of the atmosphere it has afforded to gouty subjects something more than an amelioration—amounting almost to a pleasing compensation for their aches and pains.

### LIFTER FOR THE LABORATORY

**Convenient Little Device for Handling Dishes and the Like Is Quickly Made and Cheap.**

(By GEORGE A. JAMES, IN THE SCIENTIFIC AMERICAN.)

A very convenient little device for the home laboratory is illustrated herewith. It consists of a detachable handle for lifting receptacles such as evaporating dishes and the like. The lifter is made of a heavy piece of wire bent to the shape indicated in the drawing. One end is curved to fit against the outside of the dish,



Lifter for an Evaporating Dish.

while the other end fits over the rim inside. The parts that come in contact with the dish are rubber covered, two short pieces of rubber being slipped over the wire. The device is so useful, and can be made so quickly and cheaply, that it should find a place in every amateur's laboratory.

**Artificial Eyelashes.**  
A French physician has discovered the means of planting artificial eyelashes and eyebrows. The former operation is very painful, but the latter less so.

**Improving Public Sanitation.**  
A London medical journal advocates the better airing of banks, offices and business premises over Sunday as a means of improving public sanitation.

## STARS MADE BY COLLISIONS

**Professor Bickerton, British Scientist, Believes Luminous Bodies Caused by Solar Agitation.**

Prof. A. W. Bickerton, a British scientist, believes now stars are caused by solar collisions. The collision of two suns, he said, resulted in the formation of a third body. If two dead suns came into collision they would burst into flame. The collision would take about three-quarters of an hour. In each case the collision would take the same time, as the colliding bodies would get up a velocity proportionate to their size. Then there would flash out a brilliant star, which would become a permanent body. The effect of a complete collision of two gaseous suns would be to make a new sun. Such collisions were not accidental. They did not occur at random. Included among a number of agencies tending to develop such collisions was gravitation. Before suns collided they fell toward each other and got up speed for hundreds of years. The tremendous speed thus developed was stopped suddenly in the colliding parts and converted into heat. Thus in about an hour a new star was born, explosive force expanded it, and it swelled out its diameter at a speed of millions of miles an hour. The sudden flareup of a light thousands of times the brilliancy of the sun had induced astronomers to imagine that a collision of suns had caused the phenomena. The spectra observed, however, were absolutely inexplicable to them because they had overlooked the third body, the new star. Professor Bickerton contends that the appearance of Nova Persei, a new star so brilliant that nothing equal to it had appeared for 300 years, was explained by his theory. Nova Persei was 10,000 times as brilliant as the sun.



## BAD BACKS DO MAKE WORK HARD

Backache makes the daily toil, for thousands, an agony hard to endure. Many of these poor sufferers have kidney trouble and don't know it. Swollen, aching kidneys usually go hand in hand with irregular kidney action, headache, dizziness, nervousness and despondency. Just try a box of Doan's Kidney Pills, the best-recommended special kidney remedy. This good medicine has cured thousands.

### HERE'S A TYPICAL CASE—

J. L. Richardson, Red Key, Ind., says: "My back ached as if it would break. I could not move without intense pain. The kidneys were in such shape it was necessary to draw the secretions. Doan's Kidney Pills cured me completely after doctors gave up hope and I have not had the slightest trouble since."

Get Doan's at any Drug Store, 50c. a Box  
**DOAN'S Kidney Pills**

**THOMPSON'S EYE WATER**  
JOHN L. THOMPSON & CO., Troy, N. Y.

The more birthdays a woman has the less she has to say about them.

Good health cannot be maintained where there is a constipated habit. Garfield Tea overcomes constipation.

It's difficult for a man to practice economy and be popular at the same time.

Cole's Carbolicase quickly relieves and cures burning, itching and torturing skin diseases. It instantly stops the pain of burns. Cures without scars. 25c and 50c by druggists. For free sample write to J. W. Cole & Co., Black River Falls, Wis.

**A Correction.**  
"We are drifting toward a paternal form of government," said the economist.

"Pardon me if correct you," responded the suffragette, gently; "to be accurate, you should say a maternal form of government."

**He Hoped So, Too.**  
Nellie McCoy tells the story of an advance agent of a barn-storming show that nearly closed every Saturday night, but rested over Sunday and started in bright and fresh Monday morning. His mother was a Quaker, and when he wrote that he was the business manager in advance of the show, she wrote him:

"My Dear Son—I am very sorry that thou art in the show business, but I am glad that thou art ahead of the show! I trust that thou wilt always stay ahead of it."

**Bad Teeth Go With Good Brains.**  
An English scientist has pointed out that there are signs of a steady degeneracy in two sets of organs vital to the wellbeing of the human race, and the fall is most marked among the western nations. The evidence is that, coincident with the mental advance of man, there has been a diminution in the provision of teeth. In the ape, the negro, and the white man, brain and teeth are inversely proportional to efficiency. Increase of cunning has reduced the work of the teeth, and the demand of the brain for food has starved the former; disorders of digestion show that the balance is unsatisfactory.

## HAS HARD FIGHT WITH EAGLE

**Bird Attacks Lumberman Who Killed Its Companion Near North Creek Camp, N. Y.**

Glens Falls, N. Y.—Milton Stelvers of this city was nearly killed in a fight with a bald eagle near North Creek lumber camp. He was rescued badly wounded by a fellow lumberman and is under the care of physicians. Stelvers came upon two eagles devouring the carcass of a calf and shot one of the birds. Before he could reload his gun the other eagle attacked him.

He struck at the bird repeatedly with his rifle butt, but the eagle, although one of its wings was broken, was getting the better of the battle when a hunter killed the feathered fighter with a club. The bird weighed seventy-five pounds and measured nine feet from tip to tip.

**Stricken Dumb by News of Fortune.**  
Portageburg, Ont.—When John Dancy heard that he had inherited \$2,500,000 from an uncle who died recently in Chicago, and from whom he had not heard for 15 years, he was so overcome that he lost his power of speech for an hour. He had been engaged as a riveter on a dry dock, and quit his job immediately on hearing the glad news.

**Professors Are Honored.**  
Philadelphia.—The American Association of Pathologists and Bacteriologists elected Prof. Herbert U. Williams of the University of Buffalo as president and Prof. E. R. LeCount of the University of Chicago as a councillor.

## SPEAKS, BUT LOSES MOTHER

**Journey From Russia to "Promised Land" Proves Too Much for Mrs. Lipsitz.**

Chicago.—Mrs. Schule Lipsitz never heard her daughter call her "mamma." Months ago the mother and her children, one of whom was a mute, left Russia for the promised land—America. There was some trouble at the dock. Mariese couldn't speak and therefore was barred from the states. Mariese regained her speech, verifying the wonderful stories that are told in Russia about the golden land of promise, and the Lipsitz family came to Chicago.

Mrs. Lipsitz lived to enjoy the promised land only a week. Mortally ill, she called to her daughter Mariese, "Speak to me," she said. Her hearing had become affected. Mariese spoke, Mrs. Lipsitz leaned forward to listen, but the power that had restored speech to the dumb girl took away the mother, and the aged immigrant fell back dead.

Mrs. Lipsitz died at the home of her son-in-law, Philip Singer, 726 Ashland boulevard. The Singer family said her death was due to the excitement attendant on her passage through Ellis Island. The doctor declared her death was due to weakness from age—she was 76. But Mariese believed differently. Her opinion was colored by the poetry and superstition of her race.

"God gave me my speech—God took from me my mother," she said. "Now I am able to mourn aloud her whom I loved silently. But it is better to love in dumbness than to

## CLOCK DOUBLES HENS' WORK

**Two Eggs Twice a Day Under Schedule Regulated by Alarm—Cobbler Tries Innovation.**

Glendon, Pa.—The problem of getting hens to lay twice a day has been solved by Michael Seibert, the village cobbler, and the secret lies in the application of an alarm clock to the daily life of his feathered charges. One day, for instance, a hen that had laid an egg at nine o'clock the day before laid a second at eight o'clock.

Seibert's scheme succeeds in dissipating the impression of the hens that a day consists of twenty-four hours for them, just as it does for humankind.

By setting the alarm to certain hours he has established twelve-hour habits in his flock and the unique idea works like a charm and with exceeding profit.

## Every Crisp, Little Flake OF Post Toasties

has a flavour all its own.

"Toasties" are made of selected white Indian corn; first cooked, then rolled into wafer-like bits and toasted to an appetizing golden brown.

A favorite food for breakfast, lunch or supper in thousands upon thousands of homes where people are particular.

**"The Memory Lingers"**

Sold by Grocers  
Postum Cereal Company, Limited  
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