

# THE HUMAN MACHINE

## MAN'S BODY AND ITS WONDERS OF MECHANICAL DEVICES.

Many of the inventions of the Day Are Infringements on the Clever and Ingenious Devices Registered in Nature's Patent Office.

So fearfully and wonderfully is the human body made that scientists are beginning to realize that many of the inventions of the day are infringements on nature's patent office. A good deal of trouble and worry in the past could have been avoided had inventors made a careful study of the devices employed in making these human bodies of ours the useful things they are. The principles of the block and pulley or the tackle could have been discovered ages before had the files of nature's patent office been ransacked, for there are several complete pulleys in the body, notably the one which moves the eyeball inward toward the nose.

Engineers made exhaustive tests and experiments before they discovered that a hollow shaft or rod of iron or steel is about twice as strong as a solid one. Yet nature had patented this device in our bones since the birth of Adam and Eve, and every important bone is practically constructed on this principle. The ball and socket of the hip bones were the forerunners of the modern ball bearings, and it was the first automatic oiling machine used in the world. The value of air pressure and a vacuum was unknown to man until the last century, but every one of us carried the secret in the air tight hip joint which nature had assigned to lessen the muscular effort to hold our legs upright in position.

Engineers have made wonderful progress in developing compound suction and circular pumps, but all of the principles contained in them are found in the heart, and this little pumping machine is still without a rival in the mechanical world.

The principles of the safety valve for steam engines are not so new as they seem. Our human bodies carry with them the first automatic safety valves ever designed. There are upward of 2,500,000 of them. We call them by the common name of sweat glands. Each such little gland has a safety valve which lets off heat from the body when it gets beyond a safe temperature. We cannot stand a rise of more than 8 to 10 degrees of temperature and live. If therefore the 2,500,000 safety valves were closed for twenty-four hours, death would supervene.

Adam's apple was the first storage cistern ever built, and it works with automatic regularity through health and sickness. It is a most important organ of the body, although for centuries it was considered a superfluous attachment. It regulates the flow of blood between the heart and the brain. When it ceases to operate, somebody dies of apoplexy or a rush of blood to the brain. When the heart sends up too much blood to the head, the Adam's apple steps in to check the flow and store it up for future emergencies. If the heart is temporarily weakened or put out of good running order, the blood stored in this cistern is given up and sent to the brain. The perfect working of this little device is apparent when we consider how comparatively few die of rush of blood to the brain or from a deficiency of supply.

The eye has a score of small inventions worthy of recording, the ear nearly as many more and the vital organs an equal number. There is the liver with its quarantine station. Let any poisons enter our systems with food and they are immediately held up at this quarantine station and destroyed by a secret process. It is only when poisons enter in large quantities that the station cannot handle them.

But the stomach co-operates with the liver and intercepts some of the poisons. There are small machines there which manufacture minute quantities of hydrochloric acid from the salts eaten. This acid is made in exact proportion to the amount of food consumed and suffices to destroy the microbes which we swallow. But there is even a third quarantine station located in the mouth. Millions of microbes are destroyed in the mouth daily by the juices elaborated there for this very purpose. If it was not for these three quarantine stations working continuously night and day, we should be killed off by microbes within an hour after eating a meal.

In the ear there is a little device which might have been the original of our modern compressed air inventions. The delicate drum of the ear must have an equal pressure from the outside and inside to receive and transmit the sound vibrations. To make this possible the eustachian tube was devised. Its function is to regulate the air pressure inside the ear. Let it fall to work, and one becomes stone deaf.

In the bones of the head there are many little channels, hollowed out which are called the semicircular canals. These canals are filled with fluid lymph. For centuries no one could understand their meaning. Some physicians considered them of no use. This tendency to belittle organs in the human body whose functions could not be explained has characterized more than one generation of savants. Now these peculiar semicircular canals are known to be wonderful little devices to assist us in keeping our balance. They act as a good deal of a ballast does on a ship, or, more properly speaking, like the fluid in a spirit level. The brain keeps an eye on this spirit level and is made conscious of the body's relative position. The fluid flows back and forth in the canals, and when we get at a dangerous angle the brain knows it.—New York Tribune.

# THE REAL CHINESE GONG.

It Makes an Uproar as Awful as It is Astonishing.

By the way, did you ever hear a real Chinese gong? I don't mean a hotel gong, but one of those great moon disks of yellow metal which have so terrible a power of utterance.

A gentleman in Bangor, north Wales, who had a private museum of south Pacific and Chinese curiosities, exhibited one to me. It was hanging amid Fiji spears beautifully barbed with sharks' teeth, which, together with grotesque New Zealand clubs of green stone and Sandwich Island paddles wrought with the baroque visages of the shark god, were depending from the walls; also there were Indian elephants in ivory, carrying balls in their carved bellies, each ball containing many other balls inside it.

The gong glimmered pale and huge and yellow, like the moon rising over a southern swamp. My friend tapped its ancient face with a muffled drumstick, and it commenced to sob like waves upon a low beach. He tapped it again, and it moaned like the wind in a mighty forest of pines. Again, and it commenced to roar, and with each tap the roar grew deeper and deeper till it seemed like thunder rolling over an abyss in the Cordilleras or the crashing of Thor's chariot wheels.

It was awful and astonishing as awful. I assure you I did not laugh at it at all. It impressed me as something terrible and mysterious. I vainly sought to understand how that thin disk of trembling metal could produce so frightful a vibration. He informed me that it was very expensive, being chiefly made of the most precious metals, silver and gold.—From "Life and Letters of Lafcadio Hearn."

## BURNING IN EFFIGY.

A Custom Born of the Superstition of the Ancients.

The burning of people in effigy has come from a foolish superstition of the ancients, who believed that by burning a likeness of a person they were inflicting pain upon the individual himself. Theocritus tells us that the Greek sorcerers killed their enemies by magic rites performed over the effigy of the person who had offended them, and Virgil also makes mention of this.

In the days of witchcraft and persecution one of the most common charges against witches was that they made waxen images of their enemies which they melted before a fire and thus caused the dissolution of the originals.

The Japanese still regard the effigy as a means of punishment of faithless lovers, and in France to the time of the first revolution execution by effigy was a legal rite. In the Netherlands the same illogical custom prevailed, and the different religions burned the effigies of each other's leaders with zeal. In England the burning of effigies was also practiced, as it was later in America.

No doubt from the ancient custom of burning the effigy arose the idea of placing the wax figures of eminent men in Westminster abbey. In olden times upon the death of a celebrity a waxen figure representing him fully dressed as in life was made and carried in the rear of the funeral procession. After the service the effigy was set up in the church as a temporary monument, and during the time it was on exhibition it was customary to paste or pin pieces of paper containing complimentary epitaphs upon it. The royal figures in Westminster abbey date back to the fourteenth century.—New York Tribune.

## Stanley the Explorer.

Although the fever of African exploration did not seize upon Henry M. Stanley until after he found Livingstone, when the example set by the latter fired the Welshman's ambitions, there can be little doubt that Stanley was a born explorer. Otherwise he would scarcely have been able to accomplish those arduous journeys which enabled him to fill up an enormous blank in the map of Africa. Stanley's discoveries were of the greatest political importance and led to the founding, among other things, of what is now the Congo Free State. His ultimate discovery of Emin Pasha furnished a magnificent illustration of Stanley's indomitable courage and perseverance.—London Mail.

## A Royal Slip.

Considerable amusement was once caused by a slip of Emperor Nicholas' pen in accepting the offers of several companies of Siberian militia who volunteered for service at the front. The petition read, "We humbly lay at your majesty's feet our desire to be permitted to fight and die for the fatherland." The emperor in accepting wrote on the margin of the petition in his own hand, "I thank you sincerely and hope your wishes may be fully realized."

## The Wasted Witticism.

"I always thought," said the hostess, "that Scotchmen were humorous. Last night I showed a departing Scotch guest a great pile of overcoats in the dressing room." "Here," I said, with a wave of my hand, "you are the first to leave. Take your choice." "Thank you," said he as he fumbled searchingly among them, "I'll have me own."—New York Press.

## A Legal Remedy.

Hostess—Were you seeking coming across, dear? Miss Pert—Oh, no! You see, papa was with us. Hostess—But what has that to do with your not being sick? Miss Pert—Well, you know, papa is a judge, and he overruled the motion.—Boston Transcript.

A sharp tongue is the only edged tool that grows keener with constant use.—Irving.

In polite society when there is no other topic for conversation they always discuss the weather. Hence in this issue we discuss the weather. The ordinary news is frozen up.

## Local Wants

Will Hart the drayman is ready to supply ice in any quantity for storage or washing. Also will sell cut ice on the river.

**Farm for Rent**  
My farm two miles south of the city of Pembina, 560 acres, 365 acres in fine shape ready for crop. A snap for some one.  
C. B. HARRIS.

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A good young cow, will come in in April. For sale cheap or will exchange for a fresh one and pay difference. Apply at this office.

**Campbell the Photographer.**  
Will be at Pembina from the 1st to 15th of each month and the balance of the month at Emerson. Satisfaction guaranteed.

## Notice to Creditors

IN THE MATTER OF THE ESTATE OF Martin Bentley, deceased. Notice is hereby given by the undersigned Aug. Short, administrator of the estate of Martin Bentley late of the Province of Saskatchewan, Canada, deceased, to the creditors of, and all persons having claims against, said deceased, to exhibit them with the necessary vouchers, within four months after the first publication of this notice, to said Aug. Short at his office in the City of Pembina, in said Pembina County.

Dated January 19th A. D. 1907.  
AUG. SHORT,  
Administrator.

First publication on the 25th day of January A. D. 1907.

## County Court

Before Hon. H. G. VICK, County Judge STATE OF NORTH DAKOTA, ss

In the matter of the estate of Andrew Finley deceased.

Margaret Gillies, formerly Margaret Finley, Petitioner, vs. Margaret Jane Quinell, William James Finley, George Andrew Finley, Howard T. Finley, Elizabeth Irene Finley, and John M. Wylie, as executor of the estate of Andrew Finley, Deceased, Respondents.

The state of North Dakota to the above named Respondents at all places respectively in estate of Andrew Finley, deceased: You and each of you are hereby notified that Margaret Gillies the petitioner herein has filed in this court her petition, praying that John M. Wylie be removed as executor of the estate of Andrew Finley, and that letters of administration with the will annexed, of said estate be granted to Edward Langston, of Pembina County North Dakota.

And that the said petition will be duly heard and considered by this court on Monday the 25th day of February A. D. 1907, at 2 o'clock in the afternoon of that day, at the court rooms of this court, in the county court house in the city of Pembina, county of Pembina, and state of North Dakota, and you, and each one of you, are hereby cited to appear and answer said petition, and show cause, if any there be, why the prayer of said petitioner should not be granted.

Dated January 14th, A. D. 1907.  
By the Court: H. G. VICK, Judge of the County Court.  
Let the service of the above Citation be made by publication of the same once each week for four successive weeks in the Pembina Review, a weekly newspaper printed and published at Pembina, in the County of Pembina and State of North Dakota.  
H. G. VICK, Judge.  
H. B. SPILLER, Attorney.

## Notice of Mortgage Sale

Notice is hereby given that certain mortgage made, executed and delivered by Peter Hogan, a single man, Mortgagee, to Fargo Loan Agency, Mortgagee, dated the 9th day of January A. D. 1906 and filed for record in the office of the Register of Deeds of the county of Pembina, and State of North Dakota, on the 18th day of January, A. D. 1906, at 1:30 o'clock p. m. and recorded in Book 86 at page 175, will be foreclosed by a sale of the premises in such mortgage and hereinafter described, at the front door of the Court House in the City of Pembina, in the County of Pembina and State of North Dakota, at the hour of two o'clock p. m. on Saturday the 2nd day of March, A. D. 1907 to satisfy the amount due upon said mortgage on the day of sale.

The premises described in said mortgage and which will be sold to satisfy the same are those certain premises situated in the county of Pembina, and State of North Dakota, and described as follows: to-wit: The southwest quarter of the northwest quarter (sw<sup>1</sup>/<sub>4</sub>nw<sup>1</sup>/<sub>4</sub>) of section twenty-four (24), east half of the northeast quarter (e<sup>1</sup>/<sub>2</sub>ne<sup>1</sup>/<sub>4</sub>), northeast quarter (ne<sup>1</sup>/<sub>4</sub>ne<sup>1</sup>/<sub>4</sub>), northwest quarter (nw<sup>1</sup>/<sub>4</sub>nw<sup>1</sup>/<sub>4</sub>) of section twenty-three (23); the southeast quarter of the southwest quarter (se<sup>1</sup>/<sub>4</sub>sw<sup>1</sup>/<sub>4</sub>) and the southwest quarter of the southeast quarter (sw<sup>1</sup>/<sub>4</sub>se<sup>1</sup>/<sub>4</sub>) of section fourteen (14), all in township one hundred sixty-three (163), range twenty (20), containing two hundred eighty (280) acres, more or less, according to the government survey thereof.

There will be due on such mortgage at the date of sale the sum of Five Hundred forty-two and thirty one-hundredths (542.30) Dollars.  
FARGO LOAN AGENCY, Mortgagee.  
JNO. P. FARRAND, Attorney for Mortgagee.  
Fargo, North Dakota.

## PEMBINA Building and Loan Association.

PEMBINA, N. D.  
Loans money on good Pembina County real estate. Every borrower to be a shareholder and participate in the profits the same as the investor. Every dollar paid in pays part of the debt and is also placed at interest for the benefit of the shareholder. From our experience it is found that from 108 to 115 monthly payments pays the principal and interest on any sum borrowed. Monthly payments are 50 cents per share and per hundred of sum borrowed. No bonus. This form of borrowing money is especially convenient and profitable to wage earners and salaried men who want to own their own homes. The monthly payments are less than rent, and this form of "rent" buys the home.

G. THOMPSON, President. E. D. BOKER, Secretary.  
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Mr. Murray's family, the widow, two grown sons and a daughter will continue to conduct the Institute at Minneapolis. One of the sons has begun the study of medicine to fit himself as a drink cure specialist. In the meantime the house physicians and corps of attendance, and employes will remain the same.  
For over seven years the Murray Cure has demonstrated that the drink habit can be cured. If you have a friend that needs the Murray treatment send him at once to the Murray Cure Institute. If the drink habit has a hold on you that you cannot break without help, remember we can help you.  
Call or write, Murray Cure Institute, 1819 Nicollet Ave., Minneapolis, or 321 So. 13th St., Fargo, N. D.

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