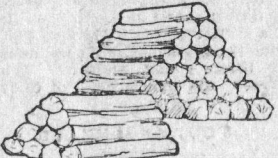


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Being the 9th of a series of ten talks introducing sayings of great men, applicable to the Nordheimer Piano, the symbol to perfect music.

Music! O how faint, how weak,
Language fades before thy spell

—Moore

The lovers of Moore—and there are thousands and thousands of them in this country—will agree with him in his tribute to music. Were it possible for him to express his joy in music more strongly he would no doubt do so were he now to have the pleasure of hearing

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This is the leading Canadian instrument that has brought piano music to its greatest height. Perfection has been attained by the years of experience combined with conscientious, skillful construction that is to be found in the Nordheimer. You are cordially invited to visit Nordheimer Hall at any time and become acquainted with the distinctiveness of the NORDHEIMER TONE

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INSECT ENGINEERING

FEATS OF THE CARPENTER BEE AND THE TUMBLEBUG.

The Sexton Beetle is an Expert Gravedigger—Wonderful Skill of the Spider and the Great Spider That His Elastic Web Will Bear.

Long before man had thought of the saw fly had used the same tool, made after the same fashion and used in the same way, for the purpose of making slits in the branches of trees so that she might have a secure place to deposit her eggs. The carpenter bee, with only the tools which nature has given her, cuts a round hole, the full diameter of her body, through thick boards and so makes a tunnel by which she can have a safe retreat in which to rear her young. The tumblebug, without derrier or machinery, rolls over large masses of dirt many times her own weight, and the sexton beetle will in a few hours bury beneath the ground the carcass of a comparatively large animal. All these feats require a degree of instinct which in a reasoning creature would be called engineering skill, but none of them is as wonderful as the feats performed by the spider. This extraordinary little animal has the faculty of propelling her threads directly against the wind, and by means of her slender cords she can haul up and suspend bodies which are many times her own weight.

Some years ago a paragraph went the rounds of the papers in which it was said that a spider had suspended an unfortunate mouse, raising it from the ground and leaving it to perish miserably between heaven and earth. Would the philosophers made great fun of the statement and ridiculed it unmercifully. I know not how true it was, but I know that it might have been true.

Some years ago in the village of Havana in the state of New York a spider entangled a milk snake in her threads and actually raised it some distance from the ground, and this, too, in spite of the struggles of the reptile, which was alive.

By what process of engineering did this comparatively small and feeble insect succeed in overcoming and lifting up by mechanical means the mouse or the snake? The solution is easy enough if we only give the question a little thought.

The spider is furnished with one of the most efficient mechanical implements known to engineers—viz, a strong elastic thread. That the thread is strong is well known. Indeed, there are few substances that will support a greater strain than the silk of the silkworm or the spider, careful experiment having shown that for equal sizes the strength of these fibers exceeds that of common iron. But notwithstanding its strength the spider's thread would be useless as a mechanical power if it were not for its elasticity. The spider has no blocks or pulleys, and therefore it cannot cause the thread to divide up and run in different directions, but the elasticity of the thread more than makes up for this and renders possible the lifting of an animal much heavier than a mouse or a snake. This may require a little explanation.

Let us suppose that a child can lift a six pound weight one foot high and do this twenty times a minute. Purchase him with 350 rubber bands, each capable of pulling six pounds through one foot when stretched. Let these bands be attached to a wooden platform on which stands a pair of horses weighing 2,100 pounds, or rather more than a ton. If now the child will go to work and stretch these rubber bands singly, hooking each one up as it is stretched, in less than twenty minutes he will have raised the pair of horses one foot.

We thus see that the elasticity of the rubber bands enables the child to divide the weight of horses into 350 pieces of six pounds each, and at the rate of a little less than one every three seconds, he lifts all these separate pieces one foot, so that the child easily lifts this enormous weight.

Each spider's thread acts like one of the elastic rubber bands. Let us suppose that the mouse or snake weighed half an ounce and that each thread is capable of supporting a grain and a half. The spider would have to connect the mouse with the point from which it was to be suspended with 160 threads, and if the little quadruped was once swung off his feet he would be powerless. By pulling successively on each thread, and shortening a little, the mouse or snake might be raised to any height within the capacity of the building or structure in which the work was done. So that to those who have ridiculed the story we may justly say, "There are more things in heaven and earth than are dreamed of in your philosophy."

What object the spider could have had in his work I am unable to see. It may have been a dread of the harm which the mouse or snake might work or it may have been the hope that the decaying carcass would attract flies, which would furnish food for the engineer. I can vouch for the truth of the snake story, however, and the object of this article is to explain and render credible a very extraordinary feat of insect engineering.

ERA OF ACTUUM

The "era of Actum" adopted during the early days of the Roman empire, commemorates the great victory gained by Octavius over the troops of Antony and Cleopatra, Jan. 1, B. C. 30. It was often used among the Romans both in writing and colloquially, just as in England people speak of events as occurring before or after the conquest, or as persons in this country frequently refer to events as having happened before or after the war.

A straight life is the shortest distance between honesty and honor.—Saturday Evening Post.

One of Three Things Always Cause RHEUMATISM

Do you know the system rides itself of waste matter through bowels and kidneys? Yes, but by the skin as well.

As a matter of fact, the skin rides the system of more urea than the kidneys do.

If the skin, or bowels, or kidneys are unhealthy—they won't throw off enough urea. This urea is changed into uric acid—carried by the blood to joints and nerves—causing Rheumatism.

One never inherits Rheumatism. One does inherit weak kidneys, irregular bowels and bad skin action.

Fruit-a-tives

OR "FRUIT LIVER TABLETS"

will positively cure Rheumatism because they increase the eliminating action of skin, kidneys and bowels—and make these three organs so vigorous and healthy that there can be no urea or waste retained in the system to poison the blood and irritate the nerves.

FRUIT-A-TIVES are fruit juices, combined with tonics—the whole forming the most effective cure for Rheumatism.

50c. a box or 6 boxes for \$2.50. Sent on receipt of price if your druggist does not handle them.

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RUSS CABINET RESIGNED.

But Czar is Trying to Form a Coalition Government.

St. Petersburg, July 13.—Finance Minister Kokovtsov has given authority for the statement that the resignation of the entire Cabinet is in the hands of the Emperor.

So far as can be learned, however, his Majesty is not yet ready to charge the Constitutional Democrats with the task of forming a Ministry, and is still seeking to compromise the issue by forming a coalition Cabinet composed of the more solid of the Conservative and Liberal elements, in the lower and upper House of Parliament, under the leadership of Count Heydon and M. Stakovich.

Admiral Is Dead.

Sebastopol, July 13.—Vice-Admiral Choukoun, commander of the Black Sea fleet, who was shot Wednesday, supposedly by a sailor of the battleship Otchakov, died yesterday morning without having regained consciousness.



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5c. Buy it and follow directions. 5c. Lever Brothers Limited, Toronto.

THE BIRTH OF WORDS

A WEALTH OF EXPRESSIONS FROM THE HUMAN BODY.

More Than Four Hundred Words in Our Language Are Related to the Hand Alone and Almost as Many Are Derived From the Head.

The human body—its limbs, fingers, toes, mouth, nose, ears, head and some of the internal organs—has originated hundreds of words. In one of the large dictionaries more than 400 are found related to the hand alone and almost as many to the head.

Index, indicate, predicate, from a Greek word for finger, mean that which points out. So oracle and orator refer to what comes out of the mouth. Audience, audible, ascertainment, the adding of accounts, originally after a "hearing" of the officials, are traceable to the ear. Spirit means the breath and is also found in conspire, "to breathe together," inspire, "to breathe in," and even in perspire, "to breathe through." Impediment is something against the foot. Ell, the cloth measure, is the length of the forearm. The hair in capillary attraction means the power exerted through the capillary or hairlike tubes.

The heart (cordis) is to be observed in a cordial, or heartening, drink; a cordial, or hearty, manner; the core of an apple. Dents in wood or metal get their name from their resemblance to tooth marks. The tongue sticks out in several words, like language and linguist.

In some countries anybody may rise by his own merits to be somebody, even to the "head" of the nation or of the church; be a head master of a school, head a revolution, take up "arms" and prove to be a capital—that is, a headmost—soldier and the chief (head) of the army.

Corporal punishment is bodily punishment; capital punishment is punishment by decapitation, or taking off the head. A corporal—that is, a corporal—means the same as captain—that is, the head of a body of foot soldiers. A colonel is one who has been crowned. The commander in chief, or head commander, compels the chieftains, or headmen of the enemy, to capitulate—that is, surrender according to an agreement that is divided into capitulations, or little heads, or chapters.

A heady and headstrong ruler sometimes makes people wish he was headless. To make headway against his foes he may have to rush headlong into difficulties or take a header into the unknown sea of politics. Among some peoples one with the big head is likely to lose it. Under some the headship of the ship of state does not make headway against the head winds of events or around the "cape," or headland, just ahead. He may plunge into trouble over head and ears, and his opponents have to put their heads together to head him off, so as to prevent a head-on collision with another nation. Some men hate to be treated as deadheads at political headquarters or as so many head of cattle or as nutton heads or cabbage heads, cabbage itself being from an old Spanish word meaning head.

Some men "play their hand" for all there is in it. Some stretch out the glad hand to every one. Some keep hand in glove with those engaged in underhand proceedings as well as with those who have climbed to high places hand over hand. When the right man says "Hands off!" even his right hand man would not lay hands on what was forbidden. The clock hands tell us if we are beforehand or behindhand.

A handsome man originally was one who used his hands skillfully and so was graceful and probably, therefore, good looking. Although every one carries a palm in his hand, people no longer, with palms in their hands, welcome their heroes. One may have his finger in too many pies and tread on too many toes. One's chirography, manuscript, handwriting—they are all one—may be rather coarse, but his fine hand is detected in many a public document and so arouse opposition to his handling the funds. This might prove a severe handicap, which was originally so called from the jockeys putting their hands into a cap and drawing lots for the places that their horses were to have in the race. Footstool and foot rule sound alike, but in the first foot is the literal, in the second the figurative, use of the word.

Though the politician put his best foot forward he may and his foothold getting insecure and begin wondering what's afoot. His coachman, mounting the footboard, may be insolent; his footman, contemptuous; his chef, or head cook, neglectful. He may be ridiculed before the footlights as a social footpad, living a hand to mouth existence at the expense of the taxpayers. While they are insisting on his toiling the mark and he is hanging to his position by the toe nails, as the saying is, he may well wish he was back on his native foothills.

Were he arrested he might be handcuffed and fetters, or fetters, placed upon his feet. He might not even have an opportunity of making mouths or showing his teeth at his enemies. He might in other days be turned over to the headman, but there would be no newspaper headlines proclaiming that fact. Only a small headstone might tell his fate to the pedestrians, or foot passengers, going by.

The Height of Simplicity. "Awfully simple, isn't he?" "I should say he was. Why, it's an actual fact that he played poker with a stranger on an ocean liner."

We have no right to say that the universe is governed by natural laws, but only that it is governed according to natural laws.—Carpenter.

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From a modest beginning a half-century ago, the firm of W. & A. Gilbey has grown till it now controls more than \$12,500,000 capital, employs an army of officials and operatives, owns famous distilleries in Scotland and England, equally famous vineyards in France, properties in Oporto and Cognac, agencies in every part of the world, and distributes annually more than 15,000,000 bottles of Wines and Spirits, the

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Of great age, with soft, mellow flavor.	

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