

### ARE SAFES FIREPROOFT

After the great San Francisco fire it After the great San Francisco fire it was found that a large proportion of the so-called fireproof safes and vants had failed to stand the test, that their contents were destroyed, and in some cases their owners were ruined. Few wafes could, of course, come through such an ordeal with their contents in-tact. In salving them ente was faken such an ordeal with their contents in-tact. In salving them care was taken to dig the safes out of the smoul-dering ruins at once, and cool them by covering with sand or swatting in wet blankets. In cases where the safes remained amongst hot askes the contents were transformed into char-cust. An article in the "Magazine of Commerce gives the comments of various British manufacturers on this state of mafters, some of whom are of opinion that this result has been largely owing matters, some of whom are efopulion that this result has been largely owing to the use of cheap and unreliable safes. Few, if any of them, seem to have been of British manufacture. The American idea of filling chambers of safes with in-fusorial earth or asbestos is condemned as sure to cook the contents of the safe in the hour of secret trial. Not a freas sure to cook the contents of the safe in the hour of severe trial. Not a fire-proof but a steam-generating and mois-ture-readying composition kceps the in-side cool, and yould dry into a non-conducting material and keep heat from the contents for a longer period. Most of the large safe manufacturers in Eng-land understand this, and so are abcau of American makers.

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### EXTRAORDINARY VITALITY OF MICROBES.

The festive microhe would depopu-late the earth in short order if there were no other microles to eat him. Fortunately for man's sake these canni-bal microbes keep pretty busy, and the mortality among the whole outfit is something tremendous. Their longevity, however when there do survive all the however, when they do survive all the battles to which existence subjects them, is one of their most unpleasant (rails, is one of their most unpleasant 'rails, and it is hast to have any feeling of con-fidence about the matter even when they seem to be nost certainly dead. It has been shown that years after their supposed period of activity they have retained their death dealing qualities. An instance is given of the devastat-ing plague that broke out in the Datch town of Haarlem about the time of the London plague.

town of Haatlem about the time of the London plague. A whole family who died of this dis-ease were interred in the churchyard, and it was found necessary a few years ago to repair the family tomb contain-ing their bodies. The masons who were so employed proved the activity of these germs after two hundred years, by con-tracting, in a mild form, the original disease, from which, however, they ail recovered. recovered.

Another case was a Scotch bank-note, Another case was a Scotch bank-note, discovered by a girl in the Bible that her grandfather had used at the time of his death from some malignant disease. his death from some manguant disease, On laking it out of the book she licked the corner of the note to prove its genuineness, and contracted the disease which had been fatal to her ancestor sevenly six years before. An epidemic broke out among the shatks in the Indian Ocean which

sharks in the Iodian Ocean which proved to be cholera, and the supposi-tion is that they became infected by de-vouring the hodies of British suilors who had died of this disease and were buried in Bombay Harbour. The hardy microbe is believed to sur-vice on land for over two centuries, and which is a substitute with homes in

maintain its activity still longer water.

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## SLAVE ANTS.

It has long been known to naturalists It has long been known to naturalists that several species of ants maintain and feed another sort of insects for the sake of the wax that they exude and which the ants use as food. These ants are said, therefore, "to keep cows." But it has been discovered only within recent years that there are ants that rise on the backs of others and are thus the cava-lices of the lancet world. Within this period a scientist in the

employment of the Smithsonian Insti-tution observed, while travelling in the Malay Peninshia, a species of small grey ants that were new to bin. These ants were much engaged in travelling: they lived in damp places and went in troops. To the scientist's great surprise, he not-iced among them from time to time an occasional ant that was much larger than the others and moved at a much swifter the others and moved at a much swifter rate. Closer examination revealed the interesting fact that this larger ant invariably carried one of the giav auts on its back. The scientist noted down many inter-

esting facts with regard to their move-ments. He found that while the main body of gray ants were always on foot. body of gray ants were always on foot, they were accompanied by at least one of their own sort mounted on one of these larger ants. It mounted and de-tacked itself now and then from the line, rode rapidly to the head, came swiftly back to the rear, and seemed to be the commander of the expedition. The scientist was soon satisfied that this species of ant employs a larger ant toossibly a drone of the same species).

(possibly a drone of the same species), thrugh he had no means of proving this) as we employ borses to ride upon: though as a rule only one and in each colony seemed to be provided with a mount.

Some ants maintain others in their service as serving or slaves. Certain warrier auts of South America confine-their own physical efforts to miding and plundering, while all the ordinary offices of life are performed for them by slaves. The little gray ants of the Malay Peninsula appear to be a more industrious race, though they appreciate the great convenience of having one on "horseback" among them,

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### DIRDS AS SURGEONS.

Sportsmen declare that game birds pos-sess the faculty of skilfully dressing wounds and even setting bones, using their own feathers for bandages.

their own feathers for bandages. Authentic instances are recorded of sportsmen lawing killed birds that were recovering from wounds previously re-ceived, and in every case the old wound was neatly dressed with down plucked from the stem feathers and skilluly ar-ranged, no doubt by the leaks of the birds. In some instances a solid plaster birds. In some instances a solut parsite was formed, completely covering and pro-tecting the wounded part, the feathers being netted together, passing alter-nately under and above each other and forming, so to speak, a textile fabric of considerable power.

# + + + A PREHISTORIC SKULL.

BELONGED TO THE LOWEST TYPE OF MAN KNOWN ON + THIS CONTINENT,

A skull, or at least part of the skull, of the lowest type of prehistoric man that the North American continent has yet revealed has just been discovered several miles north of Omaha, buried in a so-called Indian mound. Antedating, it is estimated, by thousands of years the famous "Lansing skull" of Kansas, which has been soid by some scientists to be at least 150000 years old, "Gi-der's Nebraska skull" has interested the scientific men of the entire country, and they are visiting the found of Robert S. Gilder, in Omaha, where now are the Gilder, in Ontaha, where now are the skull and several other bunes of this man, who lived before the glacial period covered North America with a vast field

Professor Henry Fairfield Osborn, of Columbia University, New York, says: "It is without doubt the skull of the lowest order of primitive man ever found on this continent." He adds that found on this continent." He adds that the skull shows an extremely small brain, with almost negligible possibili-tics of a power of thought. When askel, "How does this skull compute with the Lansing skull, which has been estimated as being 150,000 years old?" Professor Oshorn said:

Compute with the Lensing section and bus been estimated as being 150,000 years old?" Professor Oshorn said: "This stuff antichtes the Lansing skull by probably thousands of years."

Lansing

Dr. Barber, profesor of operative dentistry in Creighton University, says: "The jaw indicates fremendons crush-ing power. These tech have been work ing power. These teeth have been worn down through the process of grinding roots, buts and raw meat. The lower jaw protruded beyond the upper, and there is an abnormal development of both of them." As compared with a normal skull, the

As compared with a normal skill, the Gilder Acbraska skill shows receiving chin and forehead, abnormally large check hones and a brain pan talicalously small. The done of the head is only one inch above the top of the eye so:: ket\*

kets. But the main was a giant, neverthe-less, From other hones found in the same mound the man who owned that skull originally must have been usuarly seven feet tall, despite his little head, with the strength of two ordinary mea of to day.

## For and Against Simpler Spelling.

CUSSION AROUSED BY THE PROPOSAL TO REFORM SOME OF THE WORDS IN THE ENG-LISH LANGUAGE. DISCUSSION

The edict has gone forth that here-after government publications will con-tain the form of spelling proposed by the Simplified Spelling Beard in the list of three hundred words prepared by that bedy. English erities are es-pecially bitter against the Prosident for what they consider his unwarranted meddling with the hangrage. Only the "Spectator" has arisen to defend him. Professor Brander Matthews, chairman of the board, protests, however, that no drastic revolution is contemplated by the formed organization: n by lt

no drastic revolution is contemplated by the reformed organization: It is prepared to make haste slowly, and not to expect too much in a hurry. It is plauning a campaign in which ultimate victory is only diady forescen. It proposes first of all to call public attention to the whole question, and to keep on calling attention to it, arg-ing every mun to enquire into it for binself and to decide on bis own ing every man to enquire into it for hinself, and to decide on his own comes. It hopes to be able to encour-age independence, and to overeno-lethargy, and in time to make a breach in the walls of bigoted conservation. It has issued a list of words now spelled in two ways, and it will urge the public and the publishers and the printers to accept finally the simpler of the two.

the public and the publishers and the printers to accept finally the simpler of the two.
It will lend the weight of its authors ify to the various minor simplifications now strugging to establish themselves —the atdate states and program, esthetic and manucuer, Attempting at first only the casted things and those nearest at hard, working along the line of lenst resistance, and arousing as little opposition as possible, it will propose still further simplifications by the casting out of letters which are plainly superfluors. Slowly and steadily, without haste and without rest, it will try to win acceptance for many little simplifications, inconspicuous and unimportant individually, but collectively putting our spelling in a more satisfactory position to take a longer step in advance whenever the public has been steadily at work in English to userstate more or less the constant tendency toward simplicity (by the casting out of useless letters) which has been steadily at work in English trout work in the simplicity (by the casting out of useless the censtant tendency toward simplicity (by the casting out of useless the terrs) which has been steadily at work in English to a lecter's which is opposed only by those who are obstinate in declaring that there shall be no change of any kind hereafter.

The board believes that this attitude of opposition to all change is not only unrensomable in itself, but also that it is contrary to the tradition of the language. It feels assumed that its fellow citizens, however wedded to the existing forms, can be made to see clearly the many disadvantages of the present spelling of our language, with resulting wastefulness of time and money, with its inconveniences for for-eigners, and with its cruelly to our own children. children.

children. Another friend of the new movement is Benn Pitman brother of the father of phonography. Mr. Pitman would go much further and proposes a zeform of the alphabet which would eliminate the letters c, q, and x:

They are entirely superfluons, 1 would charaone the dot over the space 1 y, and use the dot over the voweld p, i.i. o, and a, to indicate when they are long. Then when the child share the word "pet" he would pronounce the c-dort, because there is no dot over it. When he saw the word "pate" he would know that the a is long for a dot is over it. Bo you know that the tweaty six letters of the alphabet may be used 158 ways? Hence the chance of your pronouncing a strange word is in the ratio of 658 to 26 pretty long odds. The perfect alphabet that 1 have de-vised contains tory letters, but twenty-time of the spelling problem is found They are obtinely superfluons 1 would

tion of the spelling problem is found in the elimination of e. q. and x. and the new use of the dot as 1 have described.

is obtained in time The sound of is obtained in unot-teen different ways. Which one will the child choos 2 1 would spell "cough" "kof." The prenunciation could not be wrong, for there is no dot over the o to denote that it is anything bot short. Where is soft s may be used; where it is hard k will do, and k will invariably do for q. On the other side of the house Pres-ton the other side of the house Pres-ton the other side of the house Pres-ton it will be fruitless: It can be seen at a glance that the The sound as

It can be seen at a phase that the publishers will object stremously to any change in the system of spelling, and as our books naturally set the and as our books naturally set the style of orthography, it would certainly be practically impossible, or at least difficult to bring about any innovation in this direction without the assistance of the publishers. It will be found that the public will not like the looks of "thrn" and "the," and words similarly spelled. The ombion of the te

The opinion of Professor Goldwin The opinion of Professor Goldwin Smith is no 1-ss matricently, although based on different reasons. He says: English spelling, like the language itself, is the product of a very complex history, of which its anomalies show the traces. But it is at once historical and familiar, Pionetic elipping will make it unhistorical, unfamiliar, and meenth. Can anything be more un-conth than "thru," commenty fend-red as a specimene of the phonetic system? The language eschews endings in "u" except in the cases of diphthongs and incorporated foreigns names. The contents of our existing libraries

The contents of our existing libraries The contents of our existing induces would suffer, especially, perhaps, our books of poetry, There would be per-plexity in our schools. Would a slight saving of type or of handwriting suffice to repay us? Such a change at all events would seen the results the meaner of the

seem to require the consent of the variants communities by which English is written. How could this consent be obtained?

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Modeur Conversations. Man and wife

Monem ser-at train: "Good by, dear." "Good-by, Don't forget to tell fluid-"Good-by, Don't forget to tell fluid-"Good by Don't forget to tel get to have the chops for diance. "All right."

"And be sure and feed the caumy."

Lock up the silver every night."

\* LOCK OF COS CONTROL OF CONTR And don't lorget that the gas man is coming to renew the burners. Be sur-and have him put the four-foot burner is the servant's room," "I'll recomber." (robust builded

Order kindling wood on Thursday,"

• All ciebt." an egge. "Consult the list 1 made out if you forget anything."

L wat: "I will." "Better not kiss me. People will think we are just married." "Not it they have been listening."

An American visiting Dublin told some startling stories about the height of some of the New York buildings. An Irishman who was listening stood it as long as he could, and then queried: "Ye haven't seen our newest measured hotel.

have ye?" The American thought not. "Well," such the trisbuan, "it's so tall that we had to put the two top stories on bluges,"

on bluges." "What for?" a-ked the American. "So we could let 'em down till moon went by." said Pat. the

KTOME symptons of Acute Romantism or are: A realing of coldness; want of protite; first; and sharp pains in the joints. RHEEMO removes the cause of the framble excess mic acid in the block, 2/6 and 1,6