SECOND SECTION.

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10.00

for" mean?

to

pass-

aged more than one hundred

thirty feet in thickness.

to would-be infringers.

A. The largest vein of which there

appear to be any records are about

A. M .- What does "patent applied

A. It means that the inventor

claims the protection of the govern-

men during the time that the Pat-

ent Office is investigating his petition

for letters patent. It is a warning

D. J .-- Is the Turkish title "pasha"

civil or military? A. It is given to civil dignitaries

and to naval and militry command-

J. N. O .- By what trick can water

be brought below the normal freezing

it will freeze at once, and the rest

Cash Surplus to Policyholders \$500,000.00.

#### RALEIGH, NORTH CAROLINA

### What Medicine Knows To-Day

SMALLPOX AND VACCINATION.

(Copyright 1907 by J. W. Muller). disease in virulent and fatal forms in This and the other articles to ap- those around them. Thus the problem before

pear in this series have been preparstands high in his field. Professional ethics prohibit them from attaching others. He solved his problem by their names; but every statement is abandoning the use of scabs from made with the highest authority.

It is just 210 years since Edward Jenner, the great English physician, vaccinated James Phipps, his first patient. During that long period, ac-cording to reliable statisticians, more four billions of human beings have been vaccinated. the king scourge of humanity. Every year more than 250,000 persons died from it in Europe alone, To-day it by growing rarer and rarer among all some countries it has disap-peared almost entirely. Arm-scraping alone is to be thanked for thist The gentlemen learned in pathology know a great deal less about small-pox than they know about most other infectious diseases. For one thing, they have been unable, as yet, to find the germ that causes it. Various minute bodies have been dis-covered in the blood and tissues of smallpox patients. Each of these has its school of partians, who produce a the horrible and fatal disease we call great show of evidence that it, and it smallpox, but the mild and easily alone, produces the disease. there is a unanimous lack of unanimity among the exerts. Their various theories still remain to be demon-

strated and accepted. Despite these lamentable differ-

ences, there is one point on which all the doctors agree. It is this: When a man has once had smallpox his chances of getting it again are in-finitesimally small. In other words, the disease leaves almost perfect imthe disease leaves and he who bears munity behind it; and he who bears its scars may laugh at it for the rest of his life. This immunity follows a any disease applies to that disease

tion. Jenner was not the inventor of in-pculation. Five hundred years ago the people of the Levant practised it with success. Long experience had taught them that if smallpox were acquired by bringing the scabs of patients into contact with the skin, it usually appeared in a comparatively mild form. Therefore they immunised themselves in this manner: by direct inoculation from human sub-

But this method was open to sever al very grave objections. In the first place, it happened sometimes that s person thus inoculated, instead of developing a mild attack of smallpox.

be re-vaccinated every ten years or so. animal's attack of cow-pox makes it In Germany this idea is embodied, in the imperial vaccination law." Every German child must be vaccinated during the calendar year of its birth and again at the age of 12 years. In addition, whenever a case of smallpox appears, every person in the area of possible infection 'must be vaccinated again. On account of this drastic law, smallpox seldom rages in Germany,

and when it does it remains confined to a relatively small district. . In the United States vaccination is Jenner compulsory in the majority of States,

pear in this series have been prepar-ed by specialists'and medical men of high reputation. Each contributor mild form of the disease and to keep the that would invariably produce a vaccination sentiment, in many sec-tions, is strong, and very often the those who had been inoculated from arm-scraping doctors have to call in transmitting it, in worse forms, to the police to make the opponents of inoculation bare their arms. Despite this opposition, very few escape. In human patients and by employing in consequence smallpox no longer is an their places scabs from cows suffering

epidemic disease in this country. from cow-pox. Once on a time the seacoast cities Jenner died believing that COWpox and smallpox were seperate and distinct diseases. Modern pathology were ravaged by epidemics that killed thousands. But to-day the disease kills no more than 3,500 persons a has proved that they are one. The difference between their symptoms year in the whole country, and the great majority of these are negro or and effects is due to the fact that When Janner scraped the arm of cattle possess a certain measure of foreign-born dwellers in filthy labor-the immortal Phipps, smallpox was natural immunity to the smallpox camps, sailors' boarding houses or regerm and that when it is introducted mote, backwoods settlements. Among into their bodies it is strenuously the civilized inhabitants of the larger fougat and materially debilitated. cities a case of smallpox is very rare. The anti-vaccinationists' Thus if a healthy calf is inoculatchlef the civilized races of the earth, and in ed with virus from a man dying from argument is the fact that, smallpox, the calf itself does not die, if .vaccination is performed but battles, with the germs and even-tually throws them off. Now, if some danger of inoculating the patient with danger of inoculating the patient with bility. of these germs are taken from a scab the germs of other diseases such for on this calf and introduced into the instance, as lockjaw. That this is true body of another calf, the latter com- cannot be denied; but that, such bats them still more vigorously and chance infections occur very often is successfully, and they grow still more not likely. Vaccines are now prepared debilitated. After a number of such and packed in a toroughly aseptic transmissions, they lose their original manner and all but a small minority virulence almost entirely. Then, if of physicians make the inoculation human being, they will give him, not carefully. To avoid all danger of

the horrible and fatal disease we call chance infection it is only necessary to employ a competent physician. But cured malady we call cow-pox. The vaccine virus usually is pre-pared at present by rubbing down

At bottom smallpox and cow-pox are identical. The only difference be-tween them is that the former is dangerous, while the latter is not. dangerous, while the latter is not. By small is a thick emulsion that keeps well and is easily introduced into the abrasion callties that they cannot be discussed cess, the ends of ivory points are covhere. The one that best appeals to ered with the virus which dries upon laymen is the fact that cowpox leaves them. These points are rubbed into behind it an immunity which is almost the wound.

as effective a bar to smallpox as an at-tack of smallpox itself. Experience In the laboratories wherein vaccine virus is made commercially, elaborate clearness is observed. Calves a year very mild attack just as certainly as alone. In other words, it is against all arians make sure that they are abso-the follows a severe attack. On that experience that one malady should lutely free from disease. The flank protect a patient against some other of each animal is shaved and cleansed malady. Therefore, pathologists con-clude that smallpox and cow-pox are fected calf is introduced beneath the

one. When you are vaccinated, a cou-ple of hundred thousand weak and de-a week the whole flank of the uni-great deal more expert than their bilitated smallpox germs, from some mal is covered with cow-pox vesicles. call whose blood has fought them, are The fluid within these is the vaccine

call whose blood has fought them, are introduced into your body. At the place of entrance a pustule forms, and for several days you feel ill. Later on you recover entirely. After that, even-if virulent smallpox germs are introduced into your body, you do not take the disease. In a word, you have had cow-pox and it has made you immune to its other self, smallpox. It is a mistake, however, to suppose that this immunity lasts forever—that e one vaccination is enough for a life-one vaccination is enough for a life-trance. As a matter of fact, the effect developed it in a virulent form and that this immunity lasts forever-that effect of killing a number of other diad from it. In the second place, one vaccination is enough for a life- common bacteria.

patients thus inoculated, even when time. As a matter of fact, the effect the lymph collected from a single wallan Islands until 1835; but within they themselves got well quickly and gradually wears off; and all the au-easily, frequently gave rise to the thorities agree that every one should 000 to 15,000 human beings. As the per cent of he people.

immune to the disease, in future, it service, the animal is usually protected against lockjaw by the inoculation of tetanus antitoxin, It is important to repeat vaccination when it does not "take." Only when the familiar swelling and malaise fail to follow two or three inoculations, is

> it safe to assume that the patient is immune. That certain persons are naturally immune to smallpox, and that, in consequence, vaccination, in their case, never "takes," is possible; but it is unlikely that such persons are numerous. In fact, one investigator found only one natural immune among 38,000 patients.

A great many pathologists, in a'l parts of the world, are now seeking the smallpox germ, as has been said. So far, their work has been without

result. Several observers have found a minute parasite-a parasite differs from a bacillus in the fact that the former is a true animal while the latter is a plant-in the pustules of smallpox patients, but the relation of this parasite to the disease remains to be demonstrated.

Other observers have found that the blood of persons recovering from smallpox has the power of making vaccine virus inert, and in this fact los a possibility that a curative secum for smallpox may be produced before long; but so far it is only a possi-

Meanwhile there is ground for congratulation in the fact that vaccinaion has robbed the disease of its old terrors and that epidemics, in civilized countries, now are well nigh unknown. Before vaccination was generally practised, smallpox was a frightful scourage., During the eighteenth cen-tury one-third of all the inhabitants of England were pock-marked. In Field, William Strong, Joseph P.

one year, during the early part of that century one-fourteenth of the English died of the malady. In Japeople pan, before the country was opened to civilization, it was not uncommon Eppa Hunton, Josiah G. Abbott, for 250,000 deaths to be recorded in a James A. Garfield and George F. single year. To-day, the Japanese Hoar. doctors have it well in hand, and ex-cept in the seaports it is practically J. N

unknown. The disease is thought to have orig-

inated in the far East shortly before the beginning of the Christian era. It

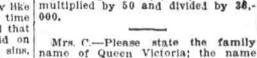
was introduced into Europe by a Roman army returning from an Asian campaign. The first treatise on smallpox thist we know to-day was written by Marius, a Swiss savant, in the year put 570 A. D. Soon after that it became of put epidemic in France and devastated the singdom of Touraine. It also spread slong the Mediterranean and the Arab white brothers-made elaborate stud-les of it. By the time of the Crusad-

So far the strict British quarantine ing perpendicularly down a pipe? I has served to prevent an epidemic in have a two-inch pipe kept full con- thick? can be employed only once for the Australia; and in view of the exten- tinuously by a spring fifty fest above production of virus. While, it is in sive vaccination practised there it is the outlet, and I want to know what probable that the island continent nev- power I could derive from it. A. The capacity of your spring

r will suffer greatly from the malady. in horse-power is weight of v When Jenner introduced vaccinaequal tion it was opposed on the ground that | the water . the virus from calves would make ing through the pipes per minute those who were vaccinated bellow like multiplied by 50 and divided by 38,those who were vaccinated bellow like cattle. The theologians of the time 000. also combatted him on the ground that

smallpox was a punishment laid on the human race for its admitted sins, and that any effect to escape it was an insult to the delty. Happily for mankind, such a view of things is no

longer held by civilized white men.



of her father and the name of her mother? The family name of Albert, Prince Consort?

A. Queen Victoria was the daughter of the Duke and Duchess of Kent. Her husband was Prince Albert, of ers. Saxe-Coburg-Gotha.

> L. K .-- Please tell me where to send be brought below the norm an old coin to receive a premium on point without solidifying? A. Do not send it anywhere until A. It can be done by keeping the water perfectly still. Thus the temperature can be brought to 22 de-

A. Do not send it anywhere that water pertury such to 12 de-you have sold it. There are coin perature can be brought to 12 de-dealers in every considerable town, but it does not follow that they are Then, if the water is shaken, part of equally anxious to obtain specific coins.

will me to 32 degrees. B. J .- What were the names of the 'three wise men" who came to Bethlehem?

A. Their names are commonly said to be Jasper, Melchoir and Balthaser, M. B .- What was the date of Rob-

ert Louis Stevenson's death? A. December 8th, 1894.

K. L .-- Is Opie Reed the author's the real name or nom de plume?

A. Ople Reed is a real name. was born in Nasaville, Tenn., in 1850, on, Ohio, and originated the song as and in early life was employed on it was at first sung. Most of the several Southern papers. In 1883 he established The Arkansas Traveler, which he conducted about ten years.

> J. F .-- Is quicksliver found in so nearly the commercial form that it is liquid? (2) If not, from what is It got, and how?

A. Yes, in comparatively small quantities, (2) Of various ores, cin-nabar, its sulphide, is the only one that furnished much of the metal. Cinnabar is heated to above the point at which mercury boils. The latter is given off in vapor, which is condensed, great care being taken in this process to protect the workmen from the hurtful vapor and to pre-

W. P .- Was that portion of London now known as Whitefriars always so called?

A. Whitefriars was formerly known as Alsatia, a precinct in London which was for a long time an asylum for insolvent debtors and persons who State. The passports are issued only had offended against the laws, to citizens of the United States.

W. F. K .- When and what was the

J. W.-What was the size of the Mayflower, and how many were the pilgrims? A. The Mayflower was a ship of 130 tons. It conveyed from Piy-mouth to Massachusetts 102 Puri-tans, known as the Pilgrim fathers. E. L.-How many metals are known? A. Forty-ning elements are uni-

For a Sprained

one-third the time us R. S .-- Was there ever a coal vein freety, and giving it absolut in the anthracité region which aver sale by W. L. Hand & Co. aln's P

ate States. I have heard it said that Lincoln told Stephens that if he would "Union" he could nave writ had his own terms. But I have heard

Lincoln demanded unconditional surrender. What were the facts relating to this conference? (2) Will you umns. please give me the names of the fourteen or fifteen who are the electors

A. I have consulted many volumes but find no report of the language used. krobably none but the partici-

(2) The electoral commission consist

Representatives Henry B. Payne, Eppa Hunton, Josiah G. Abbott,

ed if you would, through your col-umns, publish some receipes for keeping butter through the summer inonths'

part of salitpetre beaten and blended well together. Of this composition

The fee is \$1. The application must be accompanied by an affidavit, the blank form for which can be obtain-ed by writing to the Secretary of be not touched by the bands, wil

put some salt; and when that is turned into brine, if not enough to

the A. Forty-nine elements are uni-versally classed as metals; tellurium netimes is taken as a liftlet

The Question Box

J. J. C .--- In the early part of 1865 here was a conference at Hampton Roads between Lincoln and Seward and Hunter, Campbell and Stephens, the latter representing the Confeder-

B. S. B .--- What is the horoscope of person born June 6th. A. Very restless, never satisfied, sociable and adjusted to the times. this denied, and the claim made that If the societies you ask about have branches in this vicinity they are certainly referred to in the news col-

in the Hay-Tilden election of 1877? pants knew precisely what was said.

Bradley, justices of the Supreme Court: Senators Edmunds, Morton, Frelinghuysen, Bayard and Thurman;

J. N. A .-- I would feel greatly oblig-

A. Take two parts of the best salt one part of good loaf sugar, and one

one ounce to 16 ounces butter, and work it well together in a mass. Press it into the pans after the butter has become cool, for friction, though it

soften it. The pans should hold ten or twelve prounds each. On the top

cover the butter entirely, add some strong salt water. Another method is

to pour a pint of boiling water on one pound of cummon waki add a half ounce of salinette, one ounce of lump sugar. Let it stand till cold. Pour it off clear of sediment and put the butter into it. This pickle will keep butter firm and sweet during

ottest weather.

J. H. M .--- Will you kindly print a formula by which I can calculate the horse-power afforded by water flow-

E. E. L .- What was Dan Emmet's native State? Did he compose words of the song "Dixle" before or after Col. Will S. Hayes

A. He was a native of Mount Vernverses were written by others at later times,

B. J .-- Does the atmosphere rotate with the same speed as the earth? A. It loes not. The further from the earth the less the air takes the

motion of the earth. H. C .- What is the date of the

earliest exploration of the Panama canal route? A. The first exploration for a canal

across the Isthnus of Panama was made in 1527-28 by H. de la Serns. G. E. F .- Please state how to se-

cure a passport and how much it vent waste of the latter, would cost and whether citizen papers are necessary?

A. Passports are issued by the Secretary of State, Washington, D. C.