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PART AND A PART OF A PART

Notes and Comments.

4

languages. It was a record not only RANCHING IN THE WEST. THE RANGES CONFINE THEMSELVES

TO THE CHINOOK BELT.

Eastern Canada knows little as to

but may be described as lying within

limit being about Swift Current West-

by the sun and turned into good hay

as it stands, cattle are able to graze

a lot of land on which to range.

ant of all, a plentiful

brands

SUPPLY OF WATER

though most cattlemen have both.

The ranch consists of a small house

or shack, a stable, a few sheds and one

or two corrals with the addition of a

potato patch, there being usually

being issued in Regina and

used all through the west. They con-

marked on a particular spot of the

issued containing a long list. Cana-

dian brands are registered in the

across from Montana and vice versa.

Branding strikes the "pilgrim" or

Every spring the calves are got to-

gether, separated from the cows and

rope men on horseback and several

with the unfortunates. In the mean-

which the branding irons are heating

one man being detailed to watch them

Presently the rope-man deftly throws

his lariat so as to catch a calf's hind

wrestlers are on hand to deal

ters and bars, circles, etc., and

of original discovery but of fierce

Some of the "advanced" personages are talking about opening communica- beasts, of dangers from starvation tion with Mars as a fitting advancement with which to usher in the early resources. He probably would never years of the new century. Flags are have emerged from the fever-breedsuggested by one or two persons, and ing swamps of the upper Zambesi if Tesla's wireless telegraphy, with which he had not reached the isolated mishe has accomplished very little thus sionary Coillard, who, under his far, is mentioned by others as a fit- thatched roof, nursed the destitute ting way in which to get up a corres- wanderer back to strength and hopepondence between the inhabitants of fulness. No wonder his story was the earth and those of its nearest big thrilling, for in that long journey the south-west and are strongest at neighbor on the outside circuit of the from Benguela, November, 1877, to the base of the Rocky Mountains. planetary system, if that body has Durban, March, 1879, of one year and They confine themselves to a certain any inhabitants. The difficulties in the way of these schemes may or may way about a fourth of the distance; north as Edmonton, and their eastern not be taken into the account by their and along his route, which was, for authors, but it is apparent that the the most part, considerably west of ern Assiniboia. All winter these twentieth century must do something that which Livingstone had followed, occur at frequent intervals, licking up spectacular in the astronomical de-partment to keep up with the work of the nineteenth century in this field. In the stronomical de-be found many interesting tribes, in-cluding dwarfs, and gave the world its first idea of an important part of the upper Zambesi basin. Most of the geographical societies becowed that the grass in the summer is cured

On the first day of the nineteenth century-that is, on January 1, 1801, -the Italian astronomer, Piazzi, discovered Ceres, the first one found of tact that enabled Livingstone and not the planetoids, or asteroids, between a few other explorers to make far the orbits of Mars and Jupiter. Sev- longer journeys in Africa without ada, and people are rapidly coming eral hundreds of them have been found bringing suffering upon the natives. in from the old country, eastern since. Hall discovered two satellites He belonged to the ranks of explorers Canada and the Western States in orof Mars in 1877, and Barnard, in 1852, militant and the natives had to suffer. der to start the cattle business. Aldiscovered during the century, the or- in perfect safety over much of the bits of many previously discovered ground where Gerpa Pinto had fought comets were more accurately mark- his way. At the same time, Serpa ed out, and the periods and the causes Pinto was a scientific explorer, which ation of the disturbances, in the motion of Uranus, then the exterior one of all the known planets, pointed out the existence of another and remoter body in 1845, which Galle, directed by Leverrier, traced out in the sky in 1846. This body, which has been named Neptune, marks to the present day, the remotest outpost of the emof the sun.

Assuredly something sensational will have to be done in the sphere of astronomy in the twentieth century

if the work of the nineteenth is to be surpassed. But even this scheme of opening communication with Mars is not new. It was proposed many years ago, and scores of persons believed in those days in its feasibility. Thomas Dick, a long-forgotten writer on astronomical and other scientific subjects, and who wrote with far greater eloquence and fervor on any subject which he touched at all than any of the present day Martians can ants; is is the creed of slaves. command, suggested more than sixty years ago many devices whereby, as he thought, communication might be opened from the steppes of Russia and the prairies of America with the inhabitants of Mars-and he was firmly convinced that Mars and all the other planets, and even the sun and the comets, had inhabitants. Dick's faith in this particular is not shared by the average astronomer of to-day, but there is a possibility that conquests will be made in the sphere of astronomy in the present century more spectacular than any of which Dick o r any other person of his day ever dreamed.

Major Serpa Pinto, the fourth explorer to cross tropical Africa from sea to sea, died in Portugal last week. Four months earlier a Captain in the Belgian Army named Lemaire comaround. pleted the thirty-third journey across the continent and the fact was barely announced in the newspapers. Both ing peace. these men have done great work in African exploration; and the fact that the Portuguese soldier won enfoundation. during fame by a single journey while When a man assumes a publ Belgian soldier with an equally trust he should consider himself pub striking record of substantial achievelie property. ment, is almost unknown, illustrates A genius is a man who does things the changed conditions of African re-Africa is the dark continsearch. ent no longer. The romantic era of to do. The person who remains cold to our African exploration has passed. Serpa Pinto was one of the pioneers who pet hobbies always appears strangethrew a glimmer of light upon a land ly stupid. Charles Lemaire is The pain experienced in having of mystery. merely the last of a long line of suctooth pulled is made easier by a little cessful explorers. He was trained yelling. by long African service for the crowning achievement he has just complet-He travelled from the Zambesi charges it. to the Congo without harming a native-would that Serpa Pinto might have made such a record; but Lemaire crossed a continent that is gridironed by the routes of explorers, He was sent there not to find new tribes working for a living. or to reveal great geographical mysteries, but to carry out the more prosaic task of fixing the line of water the acquisition of it. parting between the Congo and the Zambesi systems. He did his work well and the maps will benefit by it of our own capacity. but there is no more talk about his achievement than about the result of a summer's campaign in the Rocky Mountains of a Geological Survey the wisdom of neutrality. party. honored wherever presented. Serpa Pinto's predecessors in the modern era of African travel were Livingstone, Cameron and Stanley. Except the books written by- Livingstone and Stanley, no contributions gives himself. According to the laws of strict to the history of the transcontinental construction the woman who insists Africa have been so journeys in widely read as the book which Serpa on her husband getting up to start the fire is guilty of making incendi-Pinto wrote. His "How I Orossed was translated into many ary speeches. Marica"

battling with the natives, of hairbreath escapes, of perils from wild and of the final depletion of all his four months, Serpa Pinto fought his strip of country, not going as far

upon him their highest honors; and he deserved them. He was undoubtedly deficient in the on the prairie all winter.

as an accurate observer that were fittingly and generously recognized by the geographers of the world.

WISE SAYINGS.

Wealth changes some men more than age. Borrowing is not much better that

begging. A sermon over 20 minutes long a clerical error. A brave man hazards life, but not his conscience. To see what is right and not do i

is want of courage. A chill air surrounds those who are down in the world. If the blind lead the blind they

will both go to the pit. Advertising is the lever that the business world.

A man may be fast asleep, but rather slow when awake Necessity is the argument of ty Mothers can do more to help the world than preachers.

No one can be as gentle as the rough man who meets a real lady. A lightning calculator is not man who predicts thunderstorms. No toil, no hardship can restrai ambitious men inured to pain. An artist is not a success until h

can draw a check on the bank. The microbe never bothers the ma who is unaware of its existence. Partial culture runs to the ornat extreme culture to simplicity. A great deal of talent is lost in the

world for want of a little courage. One reward of genius is that the petty affairs of life pass unnoticed, Perseverence is failing nineteen times and succeeding the twentieth. A man's house is his castle if his

wife's mother doesn't happen to be To be prepared for war is one of the most effectual means of preserv-

Nothing can constitute good breedrush forward, throw him, apply the they start off. Bach man has his WHAT SCIENCE HAS DONE, "string" of saddle horses, riding two or three fresh horses daily. They scour the country, gathering up

A BIG HERD OF CATTLE. these being driven to some point How Cattle Enising is Carried on in the Canadian North-West — Au Important Industry—Calves Imported From the East. when they are separated and handed over to their respective owners. These trips sometimes last for two weeks, and a captain is chosen to conduct them. Needless to say, it is every the extent and importance of the western boy's ambition to go on the cattle ranges in our great west. The round-up. range country has no definite limits

"Dogie" is the name applied to cat- If we take the whole population of the tle brought in from Manitoba and On- United Kingdom at forty-three miltario. This is to distinguish them from lions, about 340,000,000 years have been the western range cows. Large num- added to the aggregate of their lives bers of these young cattle are shipped during the last half of the present west every summer, and ranchmen say century. it pays far better to buy these young These hundreds of millions of years

stockers" than to breed their own have been added to our lives mainly calves. These yearlings may be bought by war on the microbe. So long as the for about \$15 a head, often for much microbe was unknown as the cause of ing life. When microbes less, and after being fed hay during nearly all disease, medicine was mere the first winter are allowed to "rus- guesswork, while surgery was in they generate a poison, or toxin, in tle" for themselves and consequently are no expense. At from three to as this mischievous little being was the man ill, but, after a while, it kills

cattle for from \$40 to \$50 and over. sures were taken to fight him. Ranching is getting to be a very Large shipments of beef are made to Great Britain every fall, and the if a man had a tumor on his brain, fact, a contest in staying power be important industry in Western Cana loss for a causing paralysis or epilepsy, and earranchman is never at market if he has good beef, as the ly death, the buyers go right to the ranches. Winnipeg is the great centre and collective added one to the four moons of Jupi- In later years, the missionary travel- ready parts of the country, though to point for cattle consigned to the old ter. A great number of comets were ler Arnot wandered almost alone but appearances sparsely settled, are country, the big firm of Gordon & pretty well filled up, as cattle require Ironside, handling the bulk of the export cattle. It is said about 37,000 When a man decides to start a head were shipped there last summer and fall, so one can imagine the scene ranch he first rides well over the disof the "star showers" were determin-ed. Leverrier and Adams, by a calcul-ation of the disturbances, in the moing ranchers, the nearest of whom is yards.

often several miles away, finally locates in a place where there are thoroughbred bulls from eastern Cangood grass, shelter, and most import- ada being brought out. Short-horns are held in high esteem, Highland cat-

if possible a spring brook. Shelter is very well.' Many of the original cows also very important, and a man tries in the country came from the south, and cattle have been gradually bredto get his ranch in a place where there are sheltering hills and poplar or up and improved on from them. Notwillow bush, where the cattle can go withstanding this, Canadian ranchto protect themselves from piercing, men have a lot to do before our beef winds and blizzards, natural shelter will compare with that from the cat-

BRITAIN'S VULNERABLE SPOTS.

Cape Town and Hong Kong Not Equipped

very little money put into the build-The question is rather complicated by the fact that so long as this coun--found out that most microbes could try keeps the command of the sea be

few exceptions, equally vulnerable or invulnerable, says Pearson's Weekly. marked with his own brand, these It must also be remembered that so far as the British islands are concerned invasion would not be necessist of combinations of numbers, letsary, since effective blockade would mean starvation and surrender in a month or so. Again, no enemy would animal, such as the right hip, left attempt invasion till the fleet had ribs, jaw, etc. There is a brand book been crippled. Napoleon, with 400,000 men, was afraid to pass the Straits of Dover, though they were patrolled States, as cattle frequently stray by one old frigate, while Von Moltke admitted that he had eight plans for getting into England, but none for asterner as being a brutal operation, done away with. The air in the wards getting out again.

but the westerners rather enjoy it. tically unprotected, but then they are so far away from any possible driven into a corral where one or two base that to invade them enemy's would be to tempt disaster with little hope of adequate reward. Of ports which we make some pretense of detime a good hot fire has been made in fending, the most vnlnerable are probably Cape Town and Hong Kong. Their fortifications bear no comparison to those of the European frontiers, and they are defended mostly leg, twisting his end of the rope round by obsolete artillery, which would be the horn of his saddle. The wrestlers hopelessly outranged by the guns of

we drove it off with the greatest a But if things were in the state the were in 1849, it would have carried off WAR ON THE MICROBE HAS ADDED 130,000 of us. Take hydrophobia. YEARS TO OUR LIVES.

MOST SKILFUL SURGEONS

killed seventy-nine persons in England and Wales in 1877. That would mean Faluable Discoveries of Pasteur and Lord 100 persons in proportion to the pre-Lister - The Benefits of Chloroform. Medicine Has Kept Pace With Surgery-Anti-Toxin H:s Lowered Death Rate. sent population. This year it will not kill more than two or three. We hear a good deal about the good In dozens of diseases the same say ing of life has been effected. Scarlet old days, but in reality the length of

fever, if it were as destructive nor an Englishman's life is much greater as it was forty years ago, would kill now than it was half a century ago. 41,000 people. It won't actually carry off one-sixth of that number. diphtheria has been brought und control. The anti-toxin, recently dia. covered, has lowered the death-rate

to a surprising extent. These anti-toxins are the latest great discovery, and they are likely to play a very important part in say

GET INTO THE BODY. many cases mere butchery. But as soon the blood. This toxin, not only makes four years old they are sold as beef discovered, and his habits studied, meais able to hold out until the microbes Before the discovery of antiseptics, are killed, he recovers. Disease is, in tween the microbes and the

Now, if the poison of disease passe from one to another in certain could do nothing for him. If they species of animals, it grows more and opened the skull, microbes poured into more virulent; while, if it passes it, and produced such inflammation through animals of other species, it that the patient almost inevitably died gradually loses all power for evil. in a few days. Now surgeons think This fact has been used with regard nothing of making a couple of shits to diphtheria, as follows:

in the scalp, taking away blood-clot, A few diphtheria microbes are takor perhaps a bullet, removing it, re- en from some patient and placed in placing the bone, sewing up the scallo, bouillon. There they multiply enorand thus transforming a wretched mously. Later on the bouillon is filand thus transforming a wretched paralytic into a healthy, vigorous man. tered, and the poison separated out. A small dose of this is injected into a horse, and it makes him slightly ill. But he suffers no more inconvenience than we would from a cold in the head. Some days subsequently a larger dose is injected. In some mysterious way an anti-toxin-that is, a subcannot be seen, as is generally sup-has been developed in his blood, so the

larger dose en certain e louring matters to eat, than the smaller one. This process is repeated several times, till the horse's blood is so strongly anti-toxin that no quantity of poison can do any harm. The horse's blood is now filtered, and the fluid part of it constitutes what is called the anti-toxin. When a human being gets diphtheria, some of this is injected into his blood, and it there counteracts the poison. If it were done very early in the disperchloride of mercury, and other an- ease, the microbe could make no headtiseptics. He knew that if there were way. But, even as the treatment is no microbes, the severest wound would carried out in the hospitals, when the heal in a few days or weeks. Then patient is already half dead, it works

UNEVEN SHOULDERS.

Said to Be One of Man's Chief Physical

The physical defect most common in man is unevenness of the shoulders. One shoulder is higher than the other, and this is a defect often encountered, though the differences in the height may not be so great as to be noticeable, except by one accustomhis leg amputated, he gets well with ed to closely observing such things. This is a defect that is easily overcome by the tailor, when it exists in to make modern surgery so successful. a comparatively moderate degree. It is done sometimes by simply cutting After an operation, the surgeon picks the coat to fit on each shoulder, the up the end of the bleeding artery perfect fitting coat carrying with it the idea and the appearance of symsterilised silk thread-or thread which metry. Sometimes, and this is comhas been soaked in an antiseptic liquid. monly done in cases of more pronou ed difference, symmetry is attained ping bleeding, when a man's leg was by the familiar method of building

cut off in the old days, was to apply up or padding the lower shoulder. The

with the bes the recent u "help one as watchword. power to we impure teas from China time assist produce the you drink Ja r Blue Rib dia Green te What are th' dictionan it? Oh, son others hain't

Eve

Ladies of Ce

Side by

The old it needs a po has been e Life Pills, v gently stimu oisonous m

absolutely Headache. drug store. First Klo down at Hot

and Klondik lost lariat in Untold A Mr. Charle Ont., 88 y8:misery for ye feet. I tried hear of. I w I could not g

> I was induce After one great relief, boxes I wa dealers, 60 ce Did you ev have your wi you came hon

forgotten son answered the yet. In the kiss, but now wiping my sh

Thous: Every yea sufferers who with coughs climate. But sure. Don't l New Discover you at home. icine for Coug Lung diseas brings relief. persistent use.

Richards. Pr

have a t'ing t

bottle guarant First Tram road ? Second First Trampblow. Second

> t'roat ter wee A To the terri Ontario, the establish hosp preventative treatment to Syrup of Lin promptly and and cold. It h any remedy for cents a bottle. dealers.

I suspect ti work going o His wife had I It G

a microscope. They must first be givof this sort being preferable to sheds, the ranges in the western states. It was by finding out the precise colouring matters-or staining fluids, as they are called-which each kind of bacterium would eat that Pasteur With Moder Artillery. made his great discovery. Then the practical Scotch surgeon-Lord Lister

ngs so as to leave more to invest in the Chinook belt. These strong. warm winds blow from the west, and all parts of the empire are, with very stock. The new comer takes care to see that all his stock is carefully

the idea occurred to him that if, when he cut off a man's leg, he applied some antiseptic to the wound, he could kill the microbes-or, at least, foil their evil work. Before this discovery a surgicalward was a charnel-house. Thousands of people died of blood-poisoning and of exhaustion. At the best, wounds took months to heal. But all this is

is now as pure as in one's own home, Vast areas of our colonies are prac-If anyone is so unfortunate as to have very little pain in quite a short time. Two other discoveries have helped One is the system of tying cut arteries. with a pair of forceps, and ties it with Now, one of the chief methods of stopcruisers, just

Stock is being constantly improved, To the great Finch scientist Pasteur and to Lord Lister we owe these tle being found to endure cold weather marvellous results. About forty years ago the great French scientist discovered bacteria, and demonstrated their work These mischief-workers

brand and finally up he jumps BRANDED FOR LIFE.

In addition to this the calves are often marked by having the tops cut off their ears, a piece of skin left pendant from the lower jaw, called

that other people say it is impossible a wattle; or a long strip cut so as to hang from the neck, known as a dewlap. Cattle marked thus are easy

to distinguish from others in the winter when their long coat of hair hides the brand.

Cattle are left out to rustle for themselves on the open prairie at all

seasons of the year, and though they Many a man doesn't care what tailor charges for clothes-just so he generally keep together in a bunch on their own range, they frequently You can advertise for a missing get mixed up with others and wan-

friend, but you can't find a lost der away, the worst time being in the early spring, when the green grass friendship that way.

comes up here and there; then they Education is a very good thing when it does not unfit a man for will roam for miles, getting a nibble now and then. Naturally a man must

The desire of knowledge, like the spend a good deal of his time in the thirst of riches, increases ever with saddle.

When a blizzard comes, cattle turn One of the best effects of 'horough their backs to it and drift oversthe intellectual training is a knowledge prairie with the storm, often going for many miles, till they strike some

To make sure of popularity in any shelter, and often in the blinding, stupefying snow and wind walk right walk of life one has only to digest "cut-bank" or cliff into a over a Nature has written a letter of swift river. It is then that the stock-

credit on some men's faces which is man has to ride in anxiety and danger, not only of missing his cattle, but getting lost himself. Sometimes men

Every person has two educations one which he receives from others have given their horses a free rein and one, more important, which he when lost, and eventually arrived at their ranch.

A round-up is organized in each section every May or June, and is a very important and interesting event. of our failures A party of ranchmen is formed, and

as all but our naval guns were in South Africa by the Boer artillery.

THEY COUNTED HONESTLY. Some years ago a home missionary

had been preaching on an island whose be difficult to exaggerate its benefits. principal product is the clam. One day Before it came into use, the necessary he received an unexpected compliment as to the thoroughness of his spiritual eye of an eagle, the heart of a lion, work.

and the hand of a woman." Operations The good man was working in his had to be done at lightning speed, and shirt-sleeves on a new church. A stout few men were capable of successfully sea-captain hailed him: undertaking them. Even the most

Are you the minister here? Yes, sir.

Well, I've got ten dollars for you. For the church !

estly.

No, for yourself. I like your way ly curable diseases, because of the of doing things here. I've come to pain and danger of operations. When this island for clams a good many years, and always found them a thoucided upon, the chances were that the and or fifteen hundred short when I got home. It will pay me to have terrible shock. But anaesthetics have you keep preaching doctrines which

nake people count their clams hon-

THE EARTH MEASURED. After nearly 30 years of constant

ffort, and the expenditure of near-

ly \$500,000, scientists have succeeded

in accurately measuring the earth.

The earth, therefore, is flattened at

A RED-HOT IRON PLATE. to the raw surface.

skilful men did not do the work pro-

perly in their great haste. Now a sur-

geon can take his time. Then many

people were allowed to die of perfect-

in extreme cases, an operation was de-

patient would never recover from the

almost as easy as clock-repairing.

In medicine the

KILLED BY CARBOLIC ACID.

so that sometimes it is necessary be-The other great discovery was the low the arm to cut that side of the use of chloroform and ether to precoat shorter. vent pain. The credit of this belongs Next to unevenness of the shoulders. to an American doctor, and it would

round shoulders are perhaps the commonest defect.

tends down on that side of the body,

A very common thing is unevenness qualifications of a surgeon were, "the of the hips. A difference of half an inch here would not be at all remark able; it is sometimes much more. It a man finds one leg of his trousers -the legs, as he knows, being alike in length-touching the ground, while the other clears it, he may reasonably consider that there is a difference somewhere in his less. It may be that one leg is longer than the other, but it is more probable that one hip is higher than the other, or one leg fuller, so that it takes up the trousers more and thus gradually raises the bottom more.

rendered the most serious operations of different lengths. The difference may be so slight as to require no spe-ADVANCE HAS BEEN ASTONISHING cial attention in the making of their clothes, but it is frequently necessary Many diseases have been practically clothes, but it is frequently necessary driven out of the country. The ter-

rible typhus fever-known as a" dirt lengths. The fact appears to be that there disease," which means a microbe disease-used to kill our forefathers of are not many perfect men-that They have learned that its diameter the early part of the century at the men of perfect harmony of developthrough the equator is 7,926 miles; its height from pole to pole 7,899 miles. The series of 8,000 to 10,000 per forty-three ment and perfect symmetry of pro-portion—in which respect man is like millions. Now it kills less than eighty all things else in nature, like horses, individuala--- a saving of eight or nine all things else in interes; but in the been assorted, the actual measure-ment has removed the question from the domain of doubt. thousand lives every year. If small-por were as bad now as it was half a century ago, it would kill 9,000 peo-micht be deswrihed as variations rath-

the poles, and while this fact has long thousand lives every year. If small-

Self-distrust is the cause of most kill less than 100, and perhaps not half er than as substantially defects. A party of ranchmen is formed, and Bunning water often gets its start of that number. When cholers tried The gods approve the depth. and with waggons, tents and provisions from a spring. The gods approve the depth. and the best in th earth. It's th Corns, Burns, Ulcers, Felons Eruptions. O a box at J. E.

The fame of

Miss Minni enjoyable tea friends on the Mr. McCac guest at th Cohoon last v Mr. Hanla ill.

How : If they are and easily "f rise in the mor is poor. Hoo nerves strong the blood. It and complete

Nausea, indi Pills. She-All the

Begin taking it

charming con Dick is a fellow A SUDDEN C ness. Pain-Ki ward it off. diarrhœa. Ave one Pain-Killer SLEEPLESS N rasping cough.

the mest severe never fails to proprietore of 1