WHAT CAUSES THE SUDDEN MOVE-MENT OF ROCK AND EARTH.

Heavy Rains Loosen the Soil Along the Surface of Steep Hills-Some Terrible Slides.

T is a question which of the two, the avalanche or the landslide is the more terrible engine of destruction. The avalanche is by far the more awful, and would be indefinitely more destructive were it not confined to countries frequented by few but venturesome travelers.

Landslides, on the contrary, may occur in any place where valleys lie below steep hills. Their coming may not be predicted. Without warning, in the twinkling of an eye, the mountain's skin of rock and earth moves from its resting place, crawls slowly at first down the steep slope and then gathering momentum plunges into the valley below, carrying death and destruction with its fall.

The cause of the landslide is nearly always the same. In all rocky countries the soil is only a skin or covering for the solid rocks of the mountain's core. It lies upon the slopes rather more than twelve or fifteen feet thick, often sharply inclined and clinging to its rocky foundation chiefly by its own weight.

In seasons when there are violent and long continued rains the water soaks the soil to the bottom, and lubricates the rocky surface underneath with ooze and mud. If then the slope be steep enough it often follows that the skin of earth slides downward of its own enormous weight, and gathering momentum, becomes a mighty avalanche before which great trees are broken like straws.

It is very rarely indeed that a landslide occurs during any but protracted spells of wet weather, and in such exceptional cases some readily discovered local causes, such as unwise excavations, can always be found.

The tremendous rain falls of this spring were the cause of that Canadian landslide which occurred at St. Albans, on the banks of the St. Anne River, on April 28. This was the most terrible landslide that has ever taken place in Canada, and has few parallels on the continent.

The circumstances attending this catastrophe were these: The St. Anne River three miles from St. Albans makes a long curve to a waterfall one hundred and fifty feet in height. The mountain descended precipitously to the cliffs over whose rim the water poured. The river is the outlet of the entire watershed of the Laurentian Mountains, and this spring it was swollen to such abnormal proportions that vague fears of some catastrophe were felt. But no one predicted the awful catastrophe that followed.

The country about St. Albans was well settled with lumbermen. There aps four thousand persons in the orhood. Below the falls was a road. The Brazilians have named it farms.

The first crash occurred in the early morning, and aroused the inhabitants | early as 1770. A cube of it half an from their beds with a noise like dis- inch square cost a shilling. tant thunder. It was found that there had been a slide of the earth which stayed the rocky foundations of the falls. Many thousands of tons of rock and earth rushed down into the valley, burying several mills and houses. Three or four persons were caught in

During the next hour there was the most intense excitement. It was realized that this was but the beginning, and thousands fled, leaving their homes and their stock. They left none too soon. Three hours after the first fall the side of the mountain began to slide down upon the doomed falls. At first the movement was gradual. Soil and rocks and trees, covering vast area of mountain side, all unchanged in their relative positions, bore slowly down upon the river. Then the movement was accelerated. There was trembled. It struck the valley just above the falls, and wiped the falls out of existence. It carried away the entire cliff over which the St. Anne poured its muddy torrent. It swept into the lower valley. Resistlessly the mountain side plunged down the valley, obliterating the farms, the homes, the river itself. It did not stop until six miles of territory had been utterly devastated.

When all had settled and there was opportunity to study the results of through some of the muny vicissitudes this appalling landslide it was seen of his life. that a new map would have to be made of the township. There was nothing left as it had been before. The falls were gone completely, and the river had found a new channel three miles away. Tracts of woodland a quarter mile or more square had been moved four or five hundred yards, the trees remaining standing. Other large tracts had been literally plowed up, and the timber ground to atoms.

In place of the great pool at the foot of the falls was now found a field. Beyond it the former channel of the river was filled with huge masties of rock. No one knowing the country as it had been could possibly have found a single familiar feature throughout a space of six square miles. Many has a record of shearing 100 sheep in acres of woodland disappeared altogether.

The damage, of course, was frightful. The town escaped, but seven farm houses, with their stables and buildings, were wiped out of existence, | the Methodist Church to buy ropes for and a number of mills of various sorts its bell. It also orders placed upon

the disaster to the cities below. Booms | General Gilman Marston, of Exeter.

and wharves were carried away where the river joins the St. Lawrence, and caused a loss there of \$75,000. The damage to the lumbering interests centring around St. Albans was nearly \$1,000,000.

There was a fatal slide in Brooklyn, on the morning of April 29, 1854. It was on the heights, at the foot of Furman street. At that time the bluffs overlooking the bay were not, as now, retained by great stone walls, and spring rains, of unusual persistency, resulted in the loosening of a large portion of the heights. Without any warning, thousands of tons of rock and dirt started down the slope, and buried almost out of sight a two story brick building that stood at the foot of the hill. Two persons were killed, and several wounded.

Perhaps the greatest landslide of Northern Europe occurred at Vaordalen, Norway, in May, 1893. A few miles north of Trondhjom a large mountain rises precipitately above the Lovanger Valley, then a fertile plain, dotted with prosperous farms, sur rounding a lake.

The slide measured three miles across and followed a pathway down the mountain slopes more than six miles in length. The mighty mass gave notice of its coming by fearful thunderings far up on the mountain, but so rapid was its downward flight and so broad the swath it cut that few had time to make good their escape.

Twenty-two homesteads, on as many great and fertile farms, and fifty cottages lay in the course of the great slide between the base of the mountain and the lake. All of these were utterly destroyed. The frightful momentum gained in the descent of the mountain carried the mass straight across the valley into the lake, sweeping in front of it farms and houses

and men and herds. The lake was changed in a twinkling into a sea of mud, in whose depths were buried hundreds of human beings and thousands of domestic animals, while the prosperous valley of farms was left heaped with the rocky rubbish of the mountain.

The records of landslides contain no other recital of a horror equal to this. -New York Herald.

SELECT SIFTINGS.

Book-keeping is first mentioned in Italy about 1569.

Bermuda farms bear three successive crops in one year.

Shoes are first mentioned in Egyptian annals 2000 years B. C.

Street railways occupy 397 miles of the streets of New York City. A bed of white clay of great purity has been discovered at Oxford, Miss.

It is said that an electric railway, 300 miles long, is to be built, connecting Boise City and Lewiston, Idaho. A locomotive has been built in this country and sent to a Brazilian rail-

India rubber, used for erasing pencil marks, was known in England as

The English postoffice authorities report that the average number of postal cards which are posted each day without any address on them is nearly

A little daughter of J. F. Tombley, of Vienna, Ga., is said to have the largest head on record-thirty-six inches around. She is blind, but not

The Lincoln County (Maine) Register of Deeds has come upon some old entries written by Daniel Webster when he was teaching school and doing

copying evenings. Daniel M. Spraker, of the Mohawk National Bank, of Fonda, N. Y., who recently celebrated his ninety-sixth birthday, is the oldest bank president in the United States.

W. L. Henderson, of Mount Vernon, an awful roar. Down came the gigan- Ga., has found an old quarter of a tic landslide, while the mountain silver dollar. In the old days the people used to get quarters by cutting dollars up with an ax.

> Postmaster Simeon W. A. Stevens, of South Gardiner, Mass., who is seventy-six years old, was appointed by Franklin Pierce in 1854, and has held the office continuously ever since.

> "Wood's Hotel," one of the few remaining buildings of London that are associated closely with Charles Dickens, is about to be demolished. In one suite of rooms Dickens passed

The portrait of himself which Henry Clay pronounced the best is to be found in a patchwork quilt which has been on exhibition recently in a Kentucky county fair. It ornaments the central square of the quilt and is valued at \$1000.

The largest diamond in the world, the Excelsior, was discovered on June 30, 1893, in the mines of Jagersfontein, Cape Colony, by Edward Jorgansen, inspector. It is a stone of the first water, valued at \$5,000,000. It weighs 9712 carats.

Frank Hewitt, of Laramie, Wyoming, is described as the champion sheep shearer of the world. He three hours and twenty-seven minutes, or at the rate of one sheep every

minute and a fraction. The will of the late Jeremiah Marston, of Hampton, N. II., gives \$50 to his grave in the old cemetery, where About a dozen persons were killed, his interment is the first in sixty years, in spite of the three hours' warning. a bowlder from his grounds inscribed: Great herds of cattle were buried. "Marstons died in 1690, 1790 and Thousands of domestic animals float- 1890," with the date of the death of a ing down the river and into the St. Srst Marston in Hampton, the de-Lawrence, brought the first news of ceased's grandfather and his cousin,

SCIENTIFIC AND INDUSTRIAL.

The starfish has five eyes.

Phonograph cylinders are now made of hard soap.

The telephone is about to be introduced into China.

Experiments in weaving by electricity are being tried in Germany.

Bailey, the astronomer, figures out the weight of the earth at 6,049,836,-000,000,000 tons.

Sapless cedar blocks from regions swept by forest fires are used in paying Detroit (Mich.) streets. The largest comets are so rarified

that they never harm planets or satellites by colliding with them. Sanctorius, an Italian physiologist,

estimates that five-eighths of all the solid and liquid food taken are exhaled by the skin. An examination of the eyes of

many animals has shown that the natural shape of the pupil in cats and other members of the genus Felis is

A ton of Dead Sea water contains 187 pounds of salt; Red Sea, 93; Mediterranean, 85; Atlantic, 81; English Channel, 72; Black Sea, 26; Caspian

The group of sun spots now visible is nearly 80,000 miles in breadth. It is not remarkable for any unusually large spots, but rather for the great number of smaller ones and for their wonderful activity.

Petroleum is to be used instead of coal on the locomotives of the Riga Railway, in Russia, and reservoirs are to be built for this purpose at five cities, capable of containing collectively 1,000,000 poods of petroleum.

A Bordeaux physician has treated two cases of violent attacks of hysteria by simply holding the tongue beyoud the teeth for a few minutes. The attacks were brought to a speedy close after the usual remedies had

An interesting ethnological exhibition has opened on the Champs de Mars, Paris, consisting of a caravan of the Chambaa tribe, men, women and children, with their animals and household trappings, brought there by the explorer, M. Bruneau.

A scheme has been proposed to reduce the friction of salt water against the sides of a steamer, which, it is claimed, will increase the speed fifty per cent. It is to force air through the vessel's plates and thereby form a narrow space between the iron and

Dr. J. A. Gilbert, of the Yale psychylogical laboratory, who some time ago completed a series of tests regarding the mental and physical developments of the pupils of the New Haven (Conn.) public schools, discovered that boys are more sensitive to weight discrimination than are girls, and that girls can tell the difference in color shades better than boys.

Water Your Horses Often.

Feeding a horse principally on grain and driving it five hours without water is like giving a man salt mackeral for dinner and not allowing him to drink before supper timevery unsatifactory for the man. If you know anything about the care of horses and have any sympathy for them, water them as often as they want to drink-once an hour if possible. By doing this you will not only be merciful to your animals, but you will be a benefactor to yourself, as they will do more work, look better, and live longer. If you are a skeptic and know more about horses than any one else, you are positive that the foregoing is wrong, because you have had horses die with watering them too much, and boldly say that the agitators of frequent watering are fools in your estimation, and you would not do such a thing. Just reason for a moment and figure out whether the animal would have overdrunk and overchilled his stomach if it had not been allowed to become overthirsty.

A driver who sits in his wagon and lashes his worn-out, half-curried, halffeed, and half-watered team deserves to be punished as a criminal. -Our Dumb Animals.

A Goose Plant in Full Bloom.

The "goose" plant in Washington Park Conservatory is now at its best, says the Chicago Inter-Ocean.

One of the biggest geese is over a yard long, and broad in proportion. The plant is one of the most unique, rare and valuable known to scientists, The correct name is aristolochia gigas Sturtevantii, and it was at the World's Fair, When there it bore only one or two flowers, owing to its being too young to bear more. It is a native of South America, and even there is considered a marvelous production. In one of the green houses next to the "goose" house at Washington Park is a collection of caladiums of the most varied shapes and colors. Mr. Kanst, the kead gardener, says the collection has no duplicate. Many of the plants have leaves as delicately traced as the finest Valenciennes laces. A newspaper may be read if covered with one of these transparent leaves. The colors are all shades of red, pink, maroon, crimson and yellow.

Some Remarkable Cases.

Here are some remarkable cases; The other day a wagon maker, who had been dumb for years, picked up a hub and spoke; and a blind carpenter reached out for his plane and saw: and a deaf sheep ranchman went out with his dog and herd; and a noseless fisherman caught a barrel of herring and smelt; and a forty-ton elephant inserted his trunk into a grate and flue. - Victoria (British Columbia)

MEWS & NOTES

of the favorite toilettes of the mo-

The Queen of England always sleeps with her bedroom windows wide open. Camel's hair wool and mohair is the

material of which many entrancing patterns are made. The fashionable women of London

are not as enthusiastic over bicyling as French and American women are. Miss Kipling, who is writing articles for various magazines, is a sister of Rudpard Kipling. She is now Mrs.

The Baroness Burdett-Coutts possesses the finest and the most carefully preserved copy of the first folio of Shakespeare, 1623.

The zabelines, cheviots and plaids are more pleasing than ever, but all are in the same dark colors and rougher than usual.

Mrs. Amelia Bloomer, originator of the famous bloomer costume, still lives with her husband at Council Bluffs, Iowa. She began wearing the garment that bears her name in 1851, while editing a temperance paper at Seneca Falls, N. Y.

Agra-linens are one of the most popular coverings for couch pillows that are in daily use. They are very durable, shed dust easily, come in a great variety of colors, and the cost is only seventy-five cents a yard for material forty-four inches wide.

What is called the rational cycling costume for women is in danger of going out of existence in Paris, for the Prefect has caused letters to be written to some well known women cyclists, cautioning them that they are infringing the law in wearing men's clothes.

Every year a Hebrew girl in Frankfurt, Germany, receives a dowry of \$2500, the income of a bequest by Baron Rothschild. Any respectable Jewish girl not younger than seventeen or older than thirty-six may apply, and lots are drawn for the prize.

During her travels in Africa Mrs. Sheldon, the exploring lady, was exceedingly embarrassed by receiving a present of 600 husbands from a local sultan. It was with much difficulty that she succeeded in refusing his splendid gift without giving serious

Mrs. George W. Childs is at the Louella, Wayne, Penn. Meanwhile, the drawings for her palatial mansion, to be built at Washington, are waiting her final approval. The house will be a decided ornament to that city of splendid houses and magnificent thoroughfares.

Mme. Demont Breton, the painter, was recently enrolled in the Legion of woman so honored is Rosa Bonheur. The new member of the Legion is the daughter of the famous painter, Jules Breton, and the wife of the painter, Adrian Demont.

In dress goods, new styles are the crepons of wool and mohair, which are rougher and more crispy than they ever have been before. The figures stand out further and the colors are darker and more subdued, green and blue perhaps predominating, but with some black in every pattern.

Miss Helen Elise Villard, daughter of the Northern Pacific man and granddaughter of William Lloyd Garrison, writes from Ischl, Austria, to say that there are no women physicians per-manently residing in Constantinople, and that she thinks Turkey presents a good field for American women of the medical profession.

The Queen of Italy is no longer young, and she is decidedly stout, but in spite of this she is graceful and has a beautiful carriage of the head and shoulders. Her manner is charming and the white hand she holds out to a guest is lovely in shape. She is a clever talker in Italian, English, French and German. She is very fond of music and literature.

Olga Frances Mary Hardincourt, Superintendent of the Tiffany Glass and Decorating Company, is a French woman, educated in an Austrian convent. The precious miter, the white miter and the exquisite chasuble, as well as the gold applique embroidery of the furniture shown at the World's Fair, and now in George Gould's house, were made under her supervision.

Celia Thaxter was gifted by nature with delicate poetic perception and lyric power, and blessed by an environment strengthening to her gift. A partly isolated existence at the Isles of Shoals could not have been refreshing and stimulating to all young poets as it was to her. But the air of the islands was literally the breath of life to her talent.

Mrs. Belinda L. Randall, of Roxbury, Mass., a descendent of Samuel Adams, of Revolutionary fame, has presented to the Boston Museum of Fine Arts a china punchbowl and salver once the property of the Marquis de Lafayette, and by him presented to Adams. It was made in China and has the arms of Lafayette upon it, designed according to the ideas of the Chinese artist.

Miss Lillie J. Martin, vice principal of a girls' high school in San Francisco, has resigned her place there to enter Gottingen University as a student. Only three or four women have hitherto been admitted to this German university's privileges. Miss Martin is a graduate of Vassar College, and relinquishes a salary of \$2000 a year to continue her studies in Germany, which will be in the line of enperimental psychology.

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The Doctor Lost.

The gambling instinct is strong in most men, but it is seldom that one hears of a man with sufficient nerve to bet a sum of money on his own life. A wager of this kind has just leaked out in which two prominent members of a Walnut street club are concerned. These two men have been close friends for years. One is a doctor and the other a lawyer. A year ago the lawyer, who had previously enjoyed the best of health, began to complain of feeling run down. He consulted his friend, the doctor, who, after a minute and thorough examination, told him frankly that his lungs were affected, the action of the heart was impaired, and that he wouldn't live a year. The lawyer, who is a man of indomitable pluck and will power, was naturally stunned for a moment. After the first shock had pessed off, his true nature asserted itself. "I'll bet you \$10,000 you are wrong, and that I do live over a year !" he exclaimed. He was in deadly earnest. The doctor was positive that his diagnosis was correct, and was forced to accept the

The money was placed in a safe deposit vault, and the lawyer went abroad. In six months he returned. The year was up last week and he won his wager. And what is more, he says he is open for more bets of a similar nature.-Philadelphia Record.

The apple trade of Great Britain. has assumed great proportions, amounting to 7,000,000 bushels within the past twelve years.

TAKE STEPS in time, if you are a suf-ferer from that scourge of humanity known as can be cured. There is the evidence of hundreds of living witnesses to fact that, in its early stages, consump-tion is a curable disease. Not every case, but a large percentage of cases, and we believe, fully 98 per cent. are cured by Dr. Pierce's Golden Medical Discovery, even after the disease has pro-gressed so far as to induce repeated bleed-

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dread and fatal disease? You need not take

instance, been so pronounced by the best and most experienced home physicians, who have no interest whatever in mis-representing them, and who were often strongly prejudiced and advised against a trial of "Golden Medical Discovery," but who have been forced to confess that but who have been forced to confess that it surpasses, in curative power over this fatal malady, all other medicines with which they are acquainted. Nasty codliver oil and its filthy "emulsions" and mixtures, had been tried in nearly all these cases and had either utterly failed to benefit, or had only seemed to benefit a little for

a short time. Extract of malt, whiskey, and various preparations of the hypophosphites had also been faithfully tried in vain. In vain.

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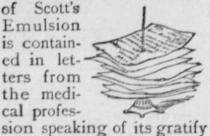
MEDICAL ASSOCIATION, Buffalo, N. Y.

B. W. Wilson has retired from the office of County Clerk of Benton County, Oregon, which he has held uninterruptedly for thirty years. There is not another public officer in Oregon whose term of service exceeds

M. Durnof, the aeronaut who first opened communication between Paris and the outside world in 1870, is dying in a Paris hospital.

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