

Though volcanoes are often spoken of as burning mountains, they do not burn at all, nor, in the proper sense of the word, are they mountains at all. A volcano is really a flaw in the crust of the earth through which the fierce glowing heat lying below the crust has managed to burst a hole. Through this hole great floods of melted rock spout up. Some volcanoes work at intervais; some are in eruption all the time. As the melted rock jets up into the air and falls it naturally builds itself into a mountain round the hole. The next eruption has to burst its way through the heart of that mountain. The chimney it spouts through is usually called "the pipe."

Sometimes an eruption is so fierce that when the lava (another name for melted rock) spouts out it is burst into bits. When it falls it is sometimes as fine as dust, sometimes the size of cinders. Most volcanoes, indeed, are simply gigantic cinder heaps.

When the force is not so great the lava in the pipe simply bubbles over and flows down the sides of the mountain, exactly as porridge boils over the edge of a pot. As lava is liquid, the slope of a lava volcano (or lava cone. as it is usually called) is always very gentle. Falling cinders, on the other hand, pile themselves up quite steeply. A lava cone, then, is always less steep than a cinder cone.

And a volcano never burns. What if there was no friction. All screws in looks like flame is only the glow of wood would immediately twist backthe white hot lava on the clouds of ward rapidly and shoot out into the steam. The more steam there is forcair; trains could not run save on coging its way up the pipe the more the ged rails, which would probably be lava bubbles, just as in the case of necessary above as well as below, thus the porridge. If the pressure of steam having four rails instead of two; buildis very great, then you have the lava ings would tumble down, and new ones blown to bits and falling as cinders. while the mighty clouds of steam rise high above the mountain. It is this steam that is mistaken for smoke.

Sometimes a cone sends out lava and cinders alternately, so that you have a great mountain of cinders bound together by layers and walls of lava.

These walls of lava are due to the fact that sometimes more lava wants to come up the pipe than the pipe will hold, so the lava bursts its way out through weak spots in the sides of the mountain. Etna has no fewer than 700 of these cones on its slopes. One of them, Monte Rossi, is a hill in itself, being 450 feet high. Indeed, a model of Etna looks as if it were covered with pimples

When Etna is really roused it is far more dangerous than Vesuvius. In 1169 it nearly destroyed the city of small that it had to crack one of its to the celling and the larger one at- rive on the grounds they leap into the sides. This crack was no less than tached to it by a cord and struck by a twelve miles long. At the bottom

Easy Way In Which the Intent of a What Causes It and What Would Hap-Law May Be Changed. pen Without It.

wheels do, and the push has to be

strong enough either to bend them

enough or to break them off for the

leased makes the book fly back.

friction between an engine wheel and

the track, sand sometimes being pour-

ed on the track to increase the friction.

contact with stationary metal, some-

times ball bearings being substituted.

Many peculiar things would happen

thus lessening the friction.

New York Tribune.

motion to continue.

steel

"A joker in its simplest form con What is friction really caused by? sists in a word or a clause which, in-Why will two things in contact not troduced into proposed legislation. slip over each other easily? It is because every substance known to science fiches away from the public its power to establish such laws as it desires, has teeth; microscopic, it is true, but still teeth. The result, then, is obeither by emasculating an enactment vious. If we shove a book across a or by perverting the essence and purpose of it." So writes Samuel Hoptable the teeth of the book interlock kins Adams in American Magazine. with the teeth of the table just as cog-

and he cites these instances of how the joker game is worked: "Sometimes it is in one word, as where the sale of a piece of public

It has actually been observed in a property to the lowest bidder was once microscope that if the push is only a authorized. Sometimes it may inhere slight one and moves the book only a in that elusive character, the comma, short distance, on the pressure of the as in the case of the tariff clause of an hand being removed the book actually old schedule providing for the free en jumps back to its former position. Itry of fruit plants, where somebody This action is a slight bending of the carelessly allowed a comma to creep two sets of teeth, only not far enough in between 'fruit' and 'plants.' thereby for them to lose their relaitve posiadmitting millions of oranges and lem tions, and their elasticity on being reons into the country duty free and costing the treasury hundreds of thou-It has been shown that this friction sands of dollars in loss of imports. Nobody ever found out whether this is not so much between different bodies as between bodies of the same mawas a printer's slip or a carefully deterial. One industrial application of vised scheme. Certain it is that the this is the bearings for steel axles. framers of the schedule never intend-

They are made of brass instead of ed it. "Again. the entire body of the pro-In some things we want as much viso may constitute the joker by purfriction as possible and in others as porting to carry one meaning when it little. The former is illustrated in the in reality carries quite another. Congress still preserves the tradition of the Irish representative from Massachusetts who proposed that March 17 The latter case is illustrated in all be made a legal holiday in celebration bearings where rotating metal is in of the 'Boston tea party.' Several New Englanders whose zeal exceeded their erudition warmly supported the measure until some one pointed out that March 17 was much more closely associated with the supposed birth of the proposer's patron saint than with the destruction of the obnoxious tea. which latter, indeed, was a midwinter festival."

> Women and Young Girls Who Are Expert Swimmers.

could not be built unless molded in The peari divers of Japan are the place like Edison's or else riveted towomen. Along the coast of the bay gether. People would have to wear of Ago and the bay of Gokasho the shoes with long spikes in them and thirteen and fourteen year old girls, then have to be careful, for dirt grains after they have finished their primary would slip over one another easily and school work, go to sea and learn to would act like deep sand. But one dive. They are in the water and learn great thing would happen-machines to swim almost from babyhood, and would run at 100 per cent efficiency. they spend most of their time in the would give out as much energy as was water except in the coldest season. put into them .- Lawrence Hodges in from the end of December to the beginning of February.

Even during the most inclement of 2 City That Does Not Live Up to Its seasons they sometimes dive for pearls. They wear a special dress, white un-The same manners and customs prederwear and the hair twisted up into vail in the Bokhara of today that were a hard knot. The eyes are protected familiar to our night prowling friend by glasses to prevent the entrance of of Bagdad. A blindfolded horse still water. Tubs are suspended from the plods round and round beneath a beam. waist.

Grocerics.

grinding the corn between an upper A boat in command of a man is asand a nether millstone. The cotton is signed to every five to ten women Catania, killing 15,000 people. In 1669 still carded by the primitive agency of divers to carry them to and from the it found its pipe so inconveniently a double bow, the smaller one affixed tishing grounds. When the divers ar-

ters at the bottom. The oysters are dropped into the tubs suspended from their waists. When these vessels are filled the divers are raised to the surface and jump into the boats. They dive to a depth

water at once and begin to gather oys-

of from five to thirty fathoms without any special apparatus and retain their breath while remaining under water from one to three minutes. Their ages vary from thirteen to forty years, and between twenty-five and thirty-five they are at their prime .- New York Sm

> The Court Always Tries to Settle Them by Reconciliation.

In one important respect the Swiss surpass other nations in the management of their divorce cases, says an English correspondent. In every town there is a kind of offi-

cial paper known as the Feuille d'Avis, in which one may read daily the following announcement:

"M. and Mme. X., who are in instance of divorce, are requested to appear privately before the judge, alone or with their lawyers, in order to come to a reconciliation if possible." Before the beginning of every divorce case in Switzerland this notice is published and sent out to the interested parties, leaving the couple, of course, free to attend before the judge or not, as they wish. Often the couple Although there are no statistics pub-

lished on the subject. I am told by a leading lawyer in Geneva whose specialty is divorce cases that at least 30 cent of divorce cases-"much to per my loss unfortunately." the lawyer added, with a smile-are settled by the paternal advice of the judge at these meetings out of court. In fact, Swiss lawyers will not defi-

nitely take up a divorce case until it has passed through the reconciliation process. If one of the couple does not attend the rendezvous this means that the af-

fair is to be fought out, but in any case Swiss divorces are not expensive. The average cost in a contested case is \$200, often \$100, and the lowest when both parties are agreed \$10 or \$15.-San Francisco Chronicle.

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Groceries.



Yeagers Shoe Store

Shoes.

Shocs.

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Dry Goods

white hot lava could dimly be seen through the clouds of steam. In 1755 millions of gallons of boiling water were shot out of the Val del Bove, which is a great circular pit on the slope of the mountain, four or five miles in diameter, its sides being cliffs nearly a mile high in places.

The greatest volcanic eruption ever known took place in the East Indies in 1883. The story makes almost incredible reading. The volcanic island of Krakatoa commenced proceedings by blowing half of itself into thin air. From the opening no less than a cubic mile of rock was shot out.

A column of steam and lava dust rose into the air to a height six times as great as that of Mount Everest. It spread and spread till for hundreds of miles around the air was black as midnight. Sounds as of distant cannonading were heard 2,000 miles off.

Sea waves fifty feet high killed 35,-000 people and were felt as far off as California. Instead of an island half a mile high there was now a hole a quarter of a mile deep. The shock of ander Powell in Everybody's. the eruption sent air waves three and a half times around the earth. The fine dust in the upper atmosphere added for months afterward a strange glow to the sunsets in England and did not vanish completely for three years.

The exact cause of the eruptions is not known for certain. A popular theory is that they are caused by water getting in to the white hot mass which is supposed to lie under the outer crust of the earth. And it is certainly a fact that practically all volcanoes are close to the edge of the sea.

Some lava flows slowly, some quickly. Vesuvius in 1805 sent out a lava stream that in four minutes had reached a spot four miles off. The size of a lava stream is sometimes gigantic. In 1783 Skaptar Jokull in Iceland emitted two streams at one time. One was forty miles long by seven miles broad. the other fifty miles by fifteen. The average depth of both was about a

hundred feet.

Lava cools very, very slowly, except on the surface, which cools at once. It is an extremely bad conductor of heat. Twenty years after a stream of from the jam pot to his mouth. lava was sent out from Jorullo, in Mexico. tourists could light their cigars through chinks in the surface, and the surface had been cold for twenty years. In 1828 a layer of snow many feet thick was found under a layer of Vesuvian lava. It was still unmelted and is probably there still. - Pearson's Weekly

Classified.

The suggestion has been made that goats' meat prices should be taken away from the provisions list and quoted in the butter market.-New York Tribune.

The heart of man is never as hard as his head.-Lamartine

mallet so as to cause a sharp rebound. The reis-i-shariat, or censor of the morals, still rides slowly through the town, compelling the children to attend the schools and their parents the mosques, inspecting the weights and measures and keeping a watch over the behavior of the community as a whole. When a tradesman is found

High Sounding Title.

guilty of cheating he is stripped bare in the street, forced to his knees and flogged with a stirrup leather by one of the censor's attendants. The world moves slowly in Bokhara.

The city gates still close with the setting sun. After dark no one is allowed abroad, the only sound at night being the melancholy beating of the watchman's drum as he patrols the streets with a lantern in his quest, unlike Diogenes, of a dishonest man.

With its filth, fanaticism, vice, cruelty and corruption. Bokhara the Noble, as its people insist on calling it. comes nearer to being a hell on earth than any place I know, and that is the best that I can say about it .- E. Alex-

Mark Twain In Parliament

After a visit to England once Mark Twain said on his return to New York: "Among other honors heaped upon me by Englishmen was that of being photographed in parliament. I am not a member of parliament. But neither am I a member of congress. Has any fellow American suggested that I should be photographed in congress? No. I blush to say that they have not. And yet here is an honor that might without risk be bestowed on any great man. And yet it was not bestowed upon Washington. Jefferson or Lincoln. When I saw that photograph, with the mother of parliaments in the background, and realized my advancing years I said to myself. Here are two noble monuments of antiquity-two shining examples of the survival of the fittest!""

In No Hurry. "Too many people," said a clergy-man, "regard their religion as did the little boy in the jam closet. His mother pounced on him suddenly. He stood on tiptoe, ladling jam with both hands "'Oh, Jacky!' his mother cried. 'And only last night you prayed to be made a saint!" "His face, an expressionless mask of jam, turned toward her. "'Yes, but not till after I'm dead.' he explained."

A Matter of Economy.

Mrs. Nocash-Mercy! You let your girl off every afternoon? Neighbor-Yes, indeed; it is such a

saving. The more she is away the fewer dishes she breaks .- Illustrated

Sloth never arrived at the attainment of a good wish .-- Cervantes.

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