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Hard Substance Is Needed to Withstand the Constant Friction Which Wears Away Moving Parts.

The principal reason for the deterioration of any piece of machinery is because the constant friction wears away the moving parts and interferes with the regularity of the mechanism. A watch, being a machine in which absolute uniformity of speed is essential, it is necessary to reduce this friction to a minimum—either through constant oiling, the use of ball bearings or some very hard material which will withstand the wear and tear of constant friction. The first two of these methods are not feasible in so small a piece of machinery as a watch, so certain very hard jewels are placed at various points to counteract the rubbing caused by the moving

Watches are generally equipped with 7, 15, 17, 18, 21 or 23 jewels, the 15 and 17-jewel types being the most popular. Intrinsically, the jewels used in the manufacture of watches are of little value, but from the standpoint of service and the speclfic purpose which they serve they are invaluable. The jewels usually used in watchmaking are the hardest of the precious stones, diamonds, sapphires and rubles, and of these the most generally used is the sapphire, which combines hardness with comparatively reasonable price.

POWER IN RADIUM WATCH

Owner of Radiolite Timepiece Is Also Possessor of Vast Power Plant.

The possessor of a radiolite watch or one having a radium dial by which the time can be detected at night, is also the possessor of a vast power plant of no mean proportions, according to a writer in the Electrical Experimenter. There is sufficient radium on your watch to haul your train home if it could be properly applied, says this author.

As the matter stands, the innocentlooking radium dial does not seem to possess any extraordinary amount of concentrated energy, but this is only apparently the case, and not actually so, for the reason that while the amount of activity manifested by the radium paint on the dial is small, this effect will keep up for 2,500 years, provided the zinc sulphide, with which the radium is mixed so as to produce a glow, holds out that long. The zinc sulphide in most cases gives out in about eight to ten years.

Now, if we could but find a way to make the radium release all its energy in a few hours, instead of spreading it over 2,500 years, it would not be difficult to make a motor that would utilize this energy.

Seeing Through Other's Eyes.

We all have our natural tendency toward a bias of one sort or another. When we see through other's eyes we also add their bias to our own. There is a possibility that one bias will counteract the other. If so it is well. It is also possible that one bias will add very greatly to another. Then what an unfair verdict you must render. Poor judgment is sure to follow and shame will lay at your door before you dream it possible. Yet most of us are to more or less extent guilty of the habit. It's so easy to take our start from where others leave off. We are compromised to the extent that we lean on their judgments. It isn't fair and often

Don't make too much fun of the other fellow's glasses. He may be badly biased, but then you have no means of knowing how you look in his eyes. We are all more or less influenced by our heredity and environment. So the wise thing is to get all the facts possible before we pass judgment.

Unique Moccasins.

Braves of the Passamaquoddy Indians at the Pleasant Point (Me.) reservation do a thriving business among summer visitors by the sale of moccasins made from the feet of seals. Seals are prolific in Passamaquoddy bay. The Indians kill many of them each year. The hides are tanned and used for various purposes and the feet are worked up into footwear both for their own use and for commerce. The fact that there is always a claw, or nail, left for each of the five toes makes these articles of footwear unique and gives them an appeal to the tourists who visit the reservation.

Virtues of Bare Feet. Eve was reputedly barefoot, and Nausicaa played ball all the better because she went unshod.

Helen of Troy at the most wore sandals, and the sandal is the compromise between the shoeless and the shod. It is easier to make sandals than to make

In Ireland and Scotland the children have run barefoot for many a day, and the wit of the one and the enterprise of the other show that there is nothing really demoralizing in going without shoes and stockings .- London Chroni-

A Slight Omission. Bertle-Good heavens! What a sight

you are! Reggle-Just as I was leaving the house to come to the club my wife pelted me with flowers.

"But that doesn ! account for your bruised and battered appearance." "No, you see, she forgot to take them out of the pots!"-From the Edinburgh

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JEWELS USED IN WATCHES TREE WAS ONCE A HANDSPIKE

"Planted by Boy in 1815.

At Norris City, Ill., there is a tree known as the "vaulting-pole cottonwood" that has an interesting history which is told by the American Forestry Magazine (Washington) as fol-

Hosea Cierce and a boy comrade returned from the war of 1812 to their homes, near Norris City, in the spring of 1815, and on January 8 of that year they had helped General Jackson whip the British in the Battle of New Orleans.

These boys both attended a log rolling on the old Pierce farm that spring, and as they were returning to the house after their day's work made a wager who could vault the furthest, using their cottonwood handspikes as vaulting poles. They both left their handspikes sticking in the soft earth where they had vaulted, and during the spring rains of 1815 they both took root and lived.

One of these trees died about ten years ago, but the other is still living and is 105 years old. This tree is about thirty teet in circumference, 175 feet high, with a very large hollow in the base of the tree which has been used as a housing for setting hens, a kennel for dogs and is always a fine playhouse for children.

CLOUDS ARE EARTH'S VEIL

If Seen From the Moon They Would Appear as Mere Film Separating the Earth.

The layer of cloud covering the earth is relatively very thin. If, for example, we could examine the earth from the moon we would doubtless see a vell of cloud covering little more than half the surface. At that distance the clouds would have no the earth would appear swathed in an irregular sheet of formless vapor, through which, from time to time, the land and water areas

The cloud cover of the earth is most attenuated; it may be compared to a film, for it is supposed to be less than one-eight-hundredth of the earth's diameter in vertical thickness.

The thinness of the earth's atmosphere may be more clearly comprehended if we realize that the relative thickness of the cloud layer on an eight-inch terrestrial globe would be about one-hundred; h of an Inch. Yet it is in this thin beit that clouds form, so that it is seen our weather is produced within limited confines .- The

The Old Red Barn Passes. Boyhood days without a hayloft are

like a play without a stage. The automobile has vanquished the big red barn, as the cement bottomed pool has the old swimming pool. The center of boyhood life has diseappeared. Imagine the gang sneaking off from trusting parents on a hot afternoon and congregating in the shiny new garage. Where can they conceal the forbidden weapons, or the thumb-marked yellowback that mother thinks has long since fallen into the ash heap? Where do they hide to escape the starched shirt are the circuses given? The train robberies planned? And the hair-raising stories repeated? The carefree scenes of boyhood life has disappeared. Imno field to grow and expand in. Half the joys of youth have vanished with the passing of the old red barn.-Sumimer Session Kansan.

Imposing on Hospitality.

In Alabama a negro team driver came home one night and found his wife highly agitated. "Jeff," she said, "you know dat Asa

Rogers' wife, Saille, is dead. Ain't you goin' to be a pallbearer at de

"No, I ain't," answered Jeff with unusual positiveness. "You ain't! Well, wasn't you a pall-

bearer at de fun'r'l of his second wife, Melissa? "So I wuz. But dat ain't-"

"En wuzn't you a pallbearer at de fun'r'l of his first wife, Mandle? Whut you mean, you ain't goin' to act dis

"Liza," he said, "suttinly, I wuz a pallbearer at dem fun'r'ls, en I done de best I could, but I'm tellin' you now I ain't acceptin' no mo' favors from nobody whut I can't return."-London Tit-Bits.

Getting Desperate. Felix Frankfurter of the Popular Government league, said at a banquet in Cambridge:

"The authorities, to soothe us-for they see we're getting pretty desperate-the authorities now declare that the high cost of living is going to

Mr. Frankfurter made a gesture of scorp and incredulity. "Well, it has fallen," he said-"on

the consumer."

Ideas Confused. "How are the women here as versationalists?

"The light one over there is rather beavy, but the dark girl beside ber is very light."

Extremes Meeting. "The electrician who was on the spot was certainly a live wire," "How do you know?"

"I could tell by the way he han dled the dead one."

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