## Late Inventions and Appliances

HAT PINS THAT STAY.

THESE odd-looking hatpins are recent inventions. It is claiming that they will not come loose either can reach, lies in from the hair or the hat. One of starting the nail, them is twisted like a cork-screw just One way to overbelow its head, and when the pin is come this is to take pushed into position the wearer gives a thin sliver of



it a twist which holds it. A reverse twist withdraws it. The other pin is entirely spiral. It is not neces-sary that its point should pass through the opposite side of the hat.

Unusual Lawn Ornament.

On the sloping lawn of a country house near Los Angeles stands a most unusual ornament, a large globe of crystal, supported upon a concrete pedestal. This shining sphere of glass acts as a mirror from any posiglass acts as a mirror from any posi-tion the observer may take, reflect-ing the landscape with singular clar-ity. The concrete pillar upon which it is poised is hexagonal, some four feet in height. As the Summer sun glistens from the polished surface of the globe, it is visible from long distances, and is a landmark in that

\* Old Tire Protects New One.

By an arrangement of lugs fitted with rings which may be bolted into an old tire casing, English motorists

an old tire casing, English motorists save wear and tear on their new tires. The device, which has only recently been brought out, is designed to prevent the cover of the good tires from coming in contact with the road surface. Kept in place of the new tire by a chain of a particular design, old covers protect the new tires to such an extent that it is practically imposan extent that it is practically impossible for a puncture to occur. There is no creep, no wear, nor friction between the outer cover and the tire, and it is almost impossible to discover from the appearance that a discarded cover is being used on the wheel.

GIVES NAIL A START.

THE difficulty of trying to drive a nall at a point higher than you

a thin sliver of a wood, a foot or two

wood, a foot or two
long, and drive the
nail through the
ent of it. Then use this as a handle
until you have given the nail a blow
or two. But if a person has much
of this work to do he should try
putting an attachment on his hammer such as is shown in the accompanying cut. A piece of springs shoet panying cut. A piece of springy sheet metal is all that is needed.

Stamping Auto Bodies.

Most modern motor-car bodies are made from pressed steel, stamped to made from pressed steel, stamped to the desired shape. A stamping press built in America and now on exhibition in England is so large that the body of a touring car can be fashloned complete in two impressions. More than 50 men can find standing-room in and upon this big machine, which, by means of a double-action toggle device, is able to exert a pressure of 1500 tons.

To Travel Through Sand.

A device to aid automobiles in traversing sandy roads without trou-ble has been invented by a California man. It consists of an endless belt on adjustable rollers, and so arranged that the rear wheels run on the belt instead of on the ground. The rollers are attached to the side of the tonneau above the rear wheels and to neau above the rear wheels, and to the bottom of the frame in front of the wheels. The forward rollers are held in contact with the ground by springs, which compress and allow the rollers to rise in case an obstruction is encountered in the wheel track. Supplementary to the device, the inventor ataches broad strips of belt fabric to the front tires, and thus equipped declares his car can make 20 miles an hour over sandy wastes where an ordinary car would soon stall. The device is readily removed, only 15 minutes being necessary to put it on or to take it off. He has applied for a patent on his invention.

## Notes on Health and Sanitation

CROQUET FOR MENTAL REST. PERIODS of mental relaxation are absolutely essential to brain structures. And the more complete rifle and his feet. Both require conthis relaxation, the greater the restant care and attention, and since the newed energy with which the mind fate of an army may depend upon the will return to its task. Each great condition of its feet and its weapons, thinker has his own peculiar way of it is an unpardonable offense for a securing this relaxation; but a very common method is that of reverting to childish frivolities, particularly during periods of great mental stress.

Louis L. Stedman, who was with Louis L. Stedman, who was with General Oyama's army during the Russo-Japanese War, gives a striking illustration of this, which he witnessed during one of the strenuous campaigns in Asia, following a great council of war in which the generals had just participated.

'On leaving the council chamber, one of the strangest sights ever wit-nessed at the headquarters of an army presented itself. Directly in front of Marshal Oyama's personal office was a croquet ground, and there at play, like happy children, were Generals Kodama and Fukushima and two other members of the general staff, Generals Matsukawa and Ochi, Koda-ma and Matsukawa were matched against Fukushima and Ochi, and the against Fukushima and Ochi, and the combat was vigorous. They had named one of the posts Harbin and the other Kirinand, and fought for positions as eagerly as though on a battlefield. Every true shot at long range was greeted with shouts of applause, while if a general went wide of his mark he was called a Russian. When a ball rolled too far its owner would dance before it, making crosses on the ground with his mallet and beon the ground with his mallet and beseeching it to stop, while the others screamed with laughter."

Everyone familiar with the working of mental machinery will understand that this croquet-ground played a part in winning battles almost as important as that of the council

SK your friends to buy their Railroad Tickets to California, via the Pacifc Northwest.

CARE OF THE FEET. HE most important elements in a soldier's equipment are his soldier to have either one or the other out of repair.

Since feet are also very useful, as well as troublesome appendages to civilians, the rules for preventing sore feet as recommended by the Red Cross Association may not come amiss for anyone. The gist of these rules is as follows:

After washing with soap and water the feet should be dried very gently—not rubbed. They should be dabbed lightly with alcohol on cotton, except where the skin is broken. When dry, they should be dusted with a powder composed of equal parts of starch and boric powder. Reddened skin or recent blisters should be protected by strips of adhesive plaster and corns should be protected in the same manner. Toenails should be cut short. Socks should be washed often,

and thoroughly dried before use.
One of the hardest tasks for the soldier (and for many, many civil-ians) is breaking in new shoes. Soak-ing with crude castor oil seems to be the most effective method, special attention to the softening being paid to the parts just above the heel, over the instep and about the great toe.

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