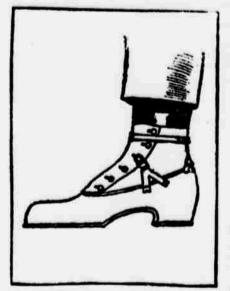


WAY TO KEEP OVERSHOES ON

Pennsylvania Woman Designs Band to Fit Around Ankle With Hock Fastened to Button.

Any person who has ever had an overshoe come off while crossing a muddy street will appreciate the fastener device designed by a Pennsylvania woman to prevent this annoying accident. An elastic band fastens around the ankle and this supports a suspender-like arrangement at the heel of the overshoe. Attached to one side of the gumshoe is another elastic supporter, with a hook which engages a button on a button shoe, or a hook on a lace shoe. It takes only a few seconds to fasten the overshoe on with these devices, and it is worth the trouble. After a rubber has once come



Fastened in a Twinkling.

off in the mud, and it usually does this when you are going somewhere you want to look your best, there is not much use in putting it on again, such a construction the inventor mini-The attachments are made so that they can be removed from the overshoe when not needed and quickly put

THEORY OF EARTH MOVEMENT

Sir George Darwin, Noted English Sci entist, Delivers Interesting Address on Tides.

Sir George Darwin, the noted scien-

tist, who was the guest of the Authors' club in London recently, delivered an interesting address on his theory of the tides. Everybody knows that the tides are due to the moon's attraction. In the tidal motion the movement of the water causes friction and a consequent slowing down of the motion of rotation of the earth, as a brake would do. The effect, though almost infinitesimal, becomes appreciable in time, although it has not yet been measured. But it must exist, and this slowing down being due principally to the moon it must be accompanied by a reaction on it, with the result that the moon will move further and further away from the earth, owing to the yielding of the system. The opinion of many authorities is that the moon was shot off from the earth at the por tion now filled by the Pacific ocean. As it is still moving further away and the rate of rotation of the earth diminishing the time will come when the length of the day and that of the lu nar month will be the same, and the earth and moon will again revolve as a rigid body. When that occurs the day will be 55 times as long as our present day. But the sun also produces tides and similar effects, though on a smaller scale. So the year, too, will be lengthened.

COMPASS FOR THE AVIATORS

Device Invented by Englishman Is Combination Known as "Shadow-Plate"-Directs Acropiane.

A device, which is to direct an aeroplane in the same manner as a compass directs a ship, has been invented by an Englishman. It is an ingenious combination of the sundial and the compass, and is known as a



An Aviator's Compass.

"shadow-plate." Its dial is of cellulold, and in the center is a small pin that throws a shadow as the light passes through, says the Popular Mechanics. When it is fixed to the forward part of the upper plane of the aeroplane, the aviator can tell the course he is taking by the variations of the shadow.

Disinfect Books. In most public libraries all books are disinfected when they are returned. They go into all sorts of places and are read by sick people in their homes and in hospitals. Hence the precaution.

Opale Expand With Heat. Opals expand with heat to a greater degree than any other precious stones. They are frequently lost because the expansion forces open the gold bands in which they are set.

DEADLY EXTERIOR OF FRUITS

lade as Germiess as Sterilized Water by Simple Process of Wash-ing Off Bacteria.

Professor Metchnikoff has had so much to say in recent years about the enormous proportion of diseases that are acquired by taking bacteria into the system on raw fruit that a certain class of people afflicted with the modern mania which may be called germiphobia will be interested in the findings of Drs. Fillasier and Sartory, who assert that a little common washing will render the deadly exterior of all fruits as germless as sterilized water.

These men are members of the French Academy of Sciences, and becoming interested in the charges brought against raw fruit they recently set about the experiments of a simple character which proved the complete efficacy of cold water as & germ chaser. They placed a few grapes in a little water and found from 120,000 to several million germs in a cubic centimeter in the water. A second washing produced a few thousand of the Metchnikoff terrors, and at the end of a fourth rinsing scarcely any germs could be found in the water used.

The interesting part of this work was that with each washing a constant decrease of germs was noted-90 per cent, being eliminated each time the process was repeated. In addition to demonstrating how simple it is to ward off all danger from germs on fruit the Frenchman asserts that not half the specimens which do find a habitation on fruit are harmful.

IMPROVEMENT ON AEROPLANE

Object of Recent Invention is to Provide Propellers to Drive and Also Steer Machine.

In describing an aeroplane, the invention of G. W. Thompson of Kingston, Okla., the Scientific American says:

This invention relates to flying machines of the heavier-than-air type, and the object is to provide a machine of this class which has its propellers so arranged that they not only drive the machine but steer it also. By mizes the necessity of using movable



Aeroplane.

rudders heretofore used to control the machine's course of travel. Balancing is accomplished by locating the power plant directly below the center of gravity of the supporting planes, and by the manner in which the planes are tilted with reference to the line of travel. The improved aeroplane is shown in perspective in the accompanying view.

First Sewing Machine.

The earliest patent for any kind of sewing contrivance was granted in England, June 24, 1755. The first complete sewing machine designed for general purposes was patented in the United States, September 10, 1846.

Effect of Drainage.

Recent experiments in Germany indicate that drainage waters do not take any more plant food away from fertilized soils than from unfertilized.

The first typewriter was produced in England 200 years ago. The only gem in the world which cannot be counterfeited is the opal.

The controversy regarding Mars being an inhabited planet began in

At the height of 3,000 feet a man in an aeroplane can see a submarine gliding along 30 feet under water. It has been estimated that the eye of a fly can discern an object one-five-

millionth of an inch in diameter. Aerial propellers, driven by gasoline engines, are being tried in France as means of propulsion for canal boats. An inventor has placed a small horseshoe magnet on the side of a

thimble to help tailors pick up needles. A pocket comb, penknife and cigar clipper have been combined in a single implement by an ingenious in-

ventor. An attachment for converting eyeglasses or spectacles into automobile goggles has been invented by a Philadelphian.

Oil lamps can be prevented from smoking if a little liquor distilled from onions be placed in the bottom of their reservoirs.

A rubber cap to hold cracked ice upon a fever patient's head that will not slip from place has been invented by a Maryland man. A double-barreled telescope, to per-

mit two persons to view the same object at the same time, has been invented by a Swiss optician. Pearls are increasing in value. A trade paper tells of a necklace of

pearls that originally cost \$28,000 recently being sold for \$90,000. By research, prevention and cure. every epidemic disease can be aboiished within the next fifty years, according to Professor Ray Lankester.

Designs in Soft Caps



Othe astonishment of some most of them for indoor wear. the theater cap of cloth-of-gold or silver, jeweled and feathered. There are design.

For the street, made caps of beaverclotb, velvet satin, plush, many of cheerfulness, even if one wakes with them fur-trimmed, are fascinating a "morning after" sensation. They chester county, the little town of Hillfrom the standpoint of becomingness and most comfortable for winter wear. At present, at least four caps are required for wear during each 24 hours. The fresh, dainty breakfast cap, the cap for out-of-doors, the sparkling evening cap and the simple and useful sleeping cap. Besides these, there are sweeping caps, plain and easily laundered, which are necessities and not luxuries, and occasion comes for their user Most breakfast or morning caps are

made with a coft crown of liberty silk over which is draped either net or lace, and a ruffle of lace which makes the frill about the face and neck. All the support such a cap needs is a circle of fine shirring or ribbon wire. The crown is a plaque of silk, overlaid with lace, cut in a circle 18 inches in diameter. This is gathered about the edge and sewed to the wire, or laid in a narrow hem, through which the wire is thrust. The frill of lace is sewed to the wire and the cap finished with a collar and bows of ribbon. Sometimes the frill is turned back across the front, hanging over the ears and in rosettes and finished with long They are utterly feminine. hanging loops.

Not all the caps have full crowns, of us and the delight of although all (so far) are soft. A all. American women are de straight length of goods is gathered at veloping a liking for soft caps, each end, edged with lace and adjusted flat to the hair. The lace is often The day now begins with the break- wired with a very fine silk-covered fast cap of sheer silk, over-draped wire, which holds it out about the with net or lace and trimmed with rib- face. Such a cap is shown in the picbons and little flowers, and ends with ture given here. Such simple headwear is easily made at home and never was anything more worth while. all sorts of gradations in material and The dainty caps for morning wear, with gay ribbons and little flowers, are alluring and pretty enough to create cap, the day is well begun.

Nearla all caps for evening are made of gold or silver net and lace comic opera fame. with or without a slik lining. Pearls and mock jewels, little hand-made roses and specially designed feathers are used, with ribbon in their decoration. They are exquisite examples of when he is not doing odd jobs of paintheadwear, wonderfully becoming to ing, and the police justice, William their wearers and in no one's way. Oriental turbans of white tulle, apparently wound about the head, are decorated at the front with a small spied a shaft of light through the ful entry," continued the justice, upstanding cochade and jeweled closed shutters of the room above cabochon. All in pure white and finished with sparkling rhinestones they are the most impressive of the innumerable soft caps which are made He could hear voices in lively argufor evening wear.

Sweeping caps are made of mull or of printed handkerchiefs and are gath turned the handle it yielded and he tim to the town lock up. The constable ered about the head with a drawing found himself confronting 20 familiar string, so that they are easily flatten- but not friendly faces. Also he en- in a cell. He locked the jail door and ed out for laundering. Night caps are countered a heavy silence. simple, but of sheer mull and lingerie omitted, and the cap finished with a coverings. But it is not the practical the chief's right hand of office, sitting home to bed, flat band of ribbon extending across side of these soft caps which makes the forehead to the ears. Narrow rib- the strongest appeal to women. It is bons from No. 11/2 to No. 5 are used their prettiness and becomingness.

JULIA BOTTOMLEY.

EXERCISE ADDS TO CHARM

Thing for Women to Keep in Mind Is the Necessity for Proper Selection.

It is curious to find that, with all the modern athleticism of girls and their fervid devotion to outdoor sports, they still cannot compete (except at tennis) with the more stolld and muscular male.

At dancing, to be sure, which is nowadays a high form of athleticism, the premiere danseuse not only competes with but outvies the particular youth with whom she gyrates and bounds, but dancing, after all, is more an affair of long practice than of actual muscular strength. The most exquisite dancer of the present time declares that athletics need not make women ungraceful, as so many people fear they do. She protests that the more she dances the more graceful she can make herself, which is easy to believe.

All her movements, however, are on strictly esthetic lines, which tend to make the body supple and

beautiful. The danger to feminine attractions lies in games like bockey and golf, in which the most odd postures must be assumed in order to succeed at all. On a horse a woman can look perfectly graceful and yet perform much the same deeds of prowess as a

The prudent girl should choose carefully the kind of exercise which will not rob her of her feminine charm, though it is probable that the woman of the future will be built on robust lines, and that the young man of her period will not fail to find her adorable.

Hat Ornaments.

One of the practical and universally becoming trimmings being put on to straw hats for the south are the wing. plume or aigrettelike ornaments made of shadow lace, tulle or other gauze. While these hat trimmings are usually simple in number, a single ornament such as the ones mentioned being as much as is needed, the size of the ornaments is often very large. These made feather arrangements admit of

PRETTY THEATER WAIST.



This attractive waist is of light green marquisette of chiffon cloth with kimono sleeves. It is trimmed with bands of ecru lace or embroidery and ornamented in front with olives and cord to match this embroidery.

The under sleeves or cuffs are of white lace.

Gilding Laces.

One clever woman who appreciates artistic touches on her gowns and hats discovered while gilding little fancy things for Christmas that laces are made very beautiful by applying to them a coat of gilt paint.

She experimented at first with old bits of lace, and found the result so satisfactory that some yards of coarse imitation Irish lace were gilded and used as trimming on an evening gown

To do gilding, lay the lace perfectly flat over a clean piece of blotting paper and apply the guilt with a brush. Let one side dry, turn and repeat the process on the other side. If necessary, apply two coats of

paint.

Silver and copper can be applied in the same way. Lace treated thus is lovely for all sorts of fancy work, bea great variety of shapes and effects. sides trimming for gowns and hats.

MPPENINGS IN THE CITTIES

"Social Queen" Found to Be Butcher



blood-stained butchers' aprons, an electric washing machine, a "bridge" party and a bucket of water have started a domestic and industrial warfare | tended by most of Wheeling's elect. here in which are involved Thomas Yingling, millionaire wholesale meat bridge, dealer, and his wife, would-be social

It is because of them that Mrs. Yingling has resigned her efforts to dic-

Meantime both wife and husband continue to reside in the mansion which was the scene of the affair which led up to their separation. Both each other will be conducted from the parted. same headquarters.

Yinglings will be told here for years, ness rival of her husband.

Mrs. Yingling has long aspired to social leadership, and was partly successful. She had planned a series of receptions and dances for this winter and informed her husband he must don his evening clothes and help her entertain.

He did not approve, and Mrs. Yingling started to do the entertaining herself.

The first affair she planned was a party for the Euterpe club. An elaborate musical program was given, at-This over, the guests sat down to

Then Mr. Yinling appeared in his shirt sleeves. He carried a washing machine in one hand and in the other a basket of dirty clothes, among tate to Wheeling society and has an them a number of blood stained butchnounced her intention of spending a ers' aprons. That was a shock. The million which she possesses in her guests thought that perhaps some novown right to put her husband "out of |cl feature had been provided for their entertainment.

But they were mistaken.

Mr. Yingling calmly attached the washing machine to an electric chandelier, carried in a bucketful of wasay they will remain there and that ter, and began to wash the dirty the campaign they will wage against clothes. The guests screamed and de-

The result was her announcement The story of the split between the that she intended to become a busi-

Police Chief Escapes from Own Prison

LBANY.-Tucked away among the A hills in the northern part of Westcover the hair completely, so that it side, with its 100 voters, the smallest need not be dressed before breakfast. incorporated village in the state, is ex-With a pretty morning jacket and cided with a criminal and political sensation that would delight the soul of the late Sir William S. Gilbert of

Political activity in Hillside goes by inverse ratio to the town's size. Leaders of the opposing factions are Hewson Stephenson, chief of police Stage.

Stephenson was making his usual tour of duty the other night when he Henry Fry's saloon.

"Ha! A poker game," he muttered, as he stole silently up the rear stairs. ment behind the door. He braced his shoulder to force it, but when he

There were no cards or chips, but,



as a secretary of what he knew at a glance was a caucus of his political enemies.

"Have you a warrant to serve?" coldly inquired Mr. Stage, the justice of the peace, who sat at the head of the table. Stephenson shook his head. "Then I order your arrest for unlaw-"Constable, do your duty."

The constable stood up and placed his hand on the police chief's shoul-

"Now, I'll commit you to jail under \$2,000 bail," the justice went on. The caucus adjourned to escort the vicsaw that his chief was tucked safely went back to the meeting.

"Five minutes later the chief took laces. The hair is improved by keep and this was the bitterest disappoint a key out of his pocket, unlocked his neck. Again, the frill at the front is ing it covered with such light head ment, there sat the village constable, cell, calmly "broke jail," and went

Goes to Prison to Join His Brother



ANSAS CITY.-It wouldn't be true, A perhaps, to say that James Baughman capered with delight when the judge of Wyandotte county common pleas court gave him a little package that was coming to him the other afternoon. But he took the bundle, unwrapped it and examined the contents -ten to twenty years in the penitentiary for highway robbery. And then he smiled.

It was not a sneer. There was no bravado in it. A man who suspected that learned his mistake when he asked the prisoner about it afterward.

"I'll tell you why I don't mind it so much," the convicted man said. "Charley's up there -my brother took a chance for me and lost. I'm go and they sent him up again. ing to ask 'em if they won't let me work alongside of him. I don't care work together up there?"

what kind of work it is, so as they let us serve our time together. "When I got pinched for sticking up

those two guys I sent for Charley and he came. " 'Get me out of this,' I says. "'I can't do it, Jim,' he told me. "The

bond is too much. I don't know where I can get that pile of money." "It was my first time in jail, and it was a terror to me. I couldn't stand it. I cried and begged and pleaded with him for God's sake to do something to get me out. It made him feel pretty bad, I guess, to hear me act the kid.

that way. He looked at me hard and

then he put his hand on my shoulder. and-"'Jim, I will,' he says. "Three days after that they pinched him as he was getting off a train in

Argentine. He had his pockets full of stuff that he had stolen from several stores in Olathe the night before. He was bringing it here to sell it so he could raise the price of my bond. "They took Charley back to Olathe.

They had the goods on him. He Charley. And it's my fault he is. He couldn't do anything but plead guilty "Say, do you think they'll let us

Meanest Man Is Found by a Minister

N EW YORK.—When it comes to deding fee, the "meanest man" may be plural, but when it comes to not only "doing" the minister, but to soliciting a job from him afterward, the Rev. Lincoln Hollister Caswell is convinced the meanest man lives in Flat bush.

Fenimore Street Methodist Episcopal bride, thinking that the marriage was church. A few weeks ago the Rev. concluded, insisted on clasping her Mr. Caswell was approached by a husband around the neck and showyoung man who confided he wished to ering him with kisses, to his conbe married and wished the minister to fusion and to the dismay of the mintie the knot.

costume of tan.



The Rev. Mr. Caswell also lives in and until the time for the presenta-Flatbush, where he is pastor of the tion of the ring arrived. Then the

About 200 guests were present at | However, the latter managed to the church on the day appointed, convey to her a delicate hint that the and the bridegroom was a sight more services were not yet concluded, and gorgeous than Solomon in all his the marriage was finally performed. glory, for he appeared in brilliant At the conclusion the bridegroom led tan shoes and yellow gloves, colorful the minister aside, and, in a confiscarf and clothes to match. The dential manner, apprised him he bride was attired in a plain traveling would be short of money until after the honeymoon trip, and requested They stood at the altar while the him to wait until that time for his

minister read the marriage service fees. To this the minister consented.