

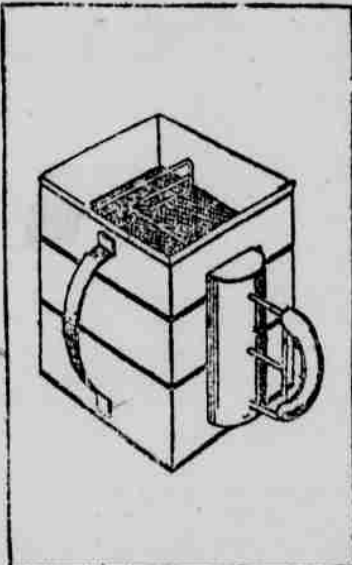
Marvels of Everyday Science

Competent Scientists Apply Their Skill to Problems of Agriculture, Houskeeping, Schools, Business and Governmental Activities.

A NEWLY devised pack of playing cards makes it possible for those who have lost their sight to play simple card games. At the top and bottom of these cards there are holes punched in groups corresponding to the Braille characters, or raised letters which the blind are generally taught to read.

Novel Flour Sieve.

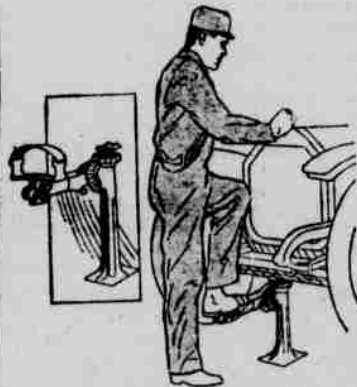
A sieve that mixes flour thoroughly at the same time that it sifts it has been designed by a Missouri man. The Sieve is a rectangular casing, with an open upper end, and is divided into three compartments, separated by



screen partitions. The handle by which it is held is on one side, and on the adjacent side is a second handle, operating three horizontal bars, one of which runs through each compartment. On the ends of these bars are rakes, which serve to agitate the flour when the handle is pulled in and out. The upper and lower bars are longer than rake moves across only half the surface of the screen, and the mixing is given a continuous backward and forward motion.

Foot Attachment for Automobile Jacks.

"Jacking up" an automobile is an easy matter, so far as mere muscular exertion is concerned, when a modern jack is used. But the operation is often marred by the dust and grease which are almost inseparable adjuncts. A device which enables the motorist to avoid these consequences, by operating any auto jack with his foot, is the product of a Chicago manufacturer.



whose foot-stirrup attachment may be quickly adjusted and is easily operated in a standing position.

Odd Life Preserver.

One of the latest substitutes for the ordinary life preserver is a curious device which, when extended for use, has a shape resembling that of a bowling pin. It is intended to be entered by a single person and in that case keeps the user entirely dry, but it is claimed that its buoyancy is so great that, in a case of a catastrophe, as many as 20 persons can be supported for an indefinite period by hanging to the loops around the lower part of the hood.

Aerial Railway to Mount Blanc.

An aerial railway running to a point on 4,100 feet below the summit of Mount Blanc, the Alpine peak famous as a goal for mountain climbers, has been completed and is to be opened to traffic during the summer of 1914.

Earth's Rigidity Measured.

The theory that the earth is a hollow sphere filled with liquid fire was long ago discarded by scientists, and now, as a result of tidal measurements being made by the physicists of the University of Chicago, this belief is not only shown to be an impossible one, but it is announced that the core of the earth is more rigid than the hardest steel.

Theater With Open Roof.

There are no complaints about ventilation in the new moving picture theater in Buenos Aires, which marks a distinct advance in architecture of this class of buildings. An oval opening is left above the center of the house, through which the clouds and stars may be seen, while an abundance of fresh air is always obtained even in the most stifling heat of summer, when other places of amusement are deserted.

Prevent Repetition of River Flood.

For protecting the Miami River valley in Ohio from future floods such as that by which it was devastated in the spring of 1913, a complete system of "dry" reservoirs has been planned, enabling legislation has been passed by the Ohio legislature, and the work of actual construction only awaits the necessary court hearings for determining relative benefits and damages to individual property holders. The work, as planned, is estimated to cost \$12,000,000.

Compartment-Car Seats.

With a view to increasing the comfort of passengers, Pullman seats with drop ends have been designed and are now being installed on some compartment cars. The outer end of the seat, the portion that ordinarily serves as an arm rest, is hinged to drop outward to a position level with the body of the seat and is equipped with a sliding bracket that supports it in that position. The seat is then practically a full-length lounge.

Rockers on Baby Coach.

In the manufacture of baby coaches a marked advance was made a few years ago in the design of a vehicle which could be folded into a compact space, enabling parents to take it upon trolley cars and trains, thus availing themselves of short trips and excursions. The convenience of these folding perambulators has been still further increased by the invention of detachable rockers by which the vehicle may readily be transformed into an excellent cradle when it is necessary to store



it indoors. The rockers consist merely of curved strips of wood with grooves and slots for the purpose of securing them to the wheels. One rocker extends from one of the front wheels to the other and the second bridges the rear wheels. There are convenient means of quickly securing the rockers in place and the result is a very serviceable cradle.

The Irrigon correspondence of the *Hepner, Oregon, Gazette-Times* contains this item: Last Sunday several of the boys around town found and destroyed about 200 crows' and magpies' eggs. These birds are very disagreeable and harmful to our small fruits later in the season and this disposes of quite a few.

Health and Sanitation

BY A PHYSICIAN.

HIGH blood pressure is not a disease. It is simply a symptom of certain conditions in the body, and it usually indicates a wearing out of certain vital organs. Neither is high blood pressure a new disorder. We are hearing much about it just now on account of the recent perfecting of simple instruments for measuring the human blood pressure. These instruments enable us to tell the big, healthy (f) man that he is in a dangerous condition, and that unless he changes his habits of living he is certain to fall a victim either to sudden death, or to one of several serious diseases.

High blood pressure is caused primarily by an excess of poisons in the blood. With rare exceptions, these poisons come mainly from the food. The man with high blood pressure overeats or eats indigestible foods. In this way he keeps the blood constantly overloaded with poisons, either from the undigested food that ferments and decomposes in the bowels, or from the digested food that cannot be used and eliminated. Add to these poisons, the poisons of tobacco, alcoholic drinks and coffee, and we have the source of the poisons in nearly all cases of high blood pressure.

Neglect of the care of the skin, insufficient air and lack of muscular exercise, all prevent the elimination of these poisons, and all these, together with the failure to reduce food as age advances and the kidneys become less active, contribute toward establishing high blood pressure.

As the blood pressure increases the heart is tremendously overworked and the kidneys and arteries are subjected to a constantly increasing strain. Usually as a result sooner or later either the heart will give out and death result from heart failure, or the kidneys will degenerate and Bright's di-

sease will supervene, or the arteries will degenerate and paralysis will follow the rupture of an artery in the brain. High blood pressure acts as a powerful stimulant, and hence this process of organic degeneration may continue even up to the time of death and the victim may still insist that he is in the best of health.

CHILDREN who are too small to walk out of doors nearly always suffer from cold feet, but this will never happen if mothers will wrap the plump little limbs of their youngest in a bag cover, which may be made as follows:

The size of the cover must vary according to the shape of mail or push cart which baby uses. Take careful measurements and then cut an oblong piece of cloth, making it twice the length you require the bag.

For lining you will need a piece of satin or sateen cut two inches smaller each way than the cloth and wadded with a thickness of cotton wool. This must be stitched firmly to the cloth. Then double the whole thing and sew up the sides so as to form a bag.

Cut a piece of cloth two and a half inches larger all the way round than one side of the big, scallop it with silk to match the cloth and lay it on the front of the bag, stitching it firmly. If you like you can also work baby's initials in the corner, surrounded by some simple floral decoration.

Last of all add a small brass ring to each upper corner, sewing it on very firmly. When baby's legs are snug between the layers of cotton wool and the rings are slipped over two hooks screwed at the back of the cart you will have good cause to feel satisfied with your handiwork.

The little but lively city of Florence is soon to begin the hard-surfacing of its principal streets, and experimenting is now in progress.

Free Homesteads

We make a specialty of Western Canada homesteads and are the only reliable party on the Coast that is locating settlers on Canadian land. We locate you on the very best mixed farming land in Western Canada. We can locate you on 320 acres on good sandy loam soil, mostly prairie, located east from Edmonton. We can locate you on 160 acres of black loam soil north and northwest of Edmonton. All the lands that we locate you on will be close to town and railroad. Some is mostly all prairie and some is mostly all timber. The lands north and northwest of Edmonton have good drinking water from 8 to 10 feet from surface. A great many of the claims have creeks through them and there is plenty of water for irrigation. The lands east of Edmonton are more adapted to wheat raising. We locate you for \$50. Parties are leaving our office daily. You will never again get an opportunity of getting a homestead in Western Canada as good as you can get now. We also have a few nice claims in Southeastern Oregon of 320 acres each that we can locate you on and that we can recommend and guarantee.

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