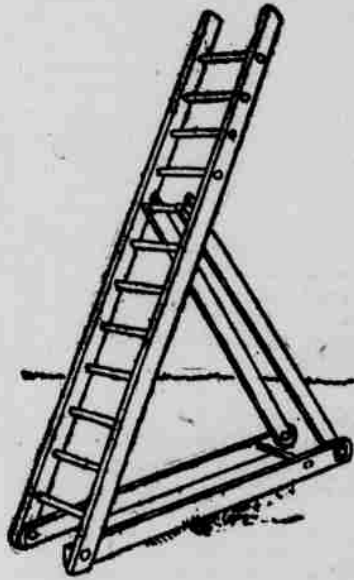


Inventions and Appliances

AIDS FRUIT PICKING.

AN ORDINARY ladder may be converted into a great help to fruit pickers. Two pieces of 2x4 timber, about seven feet long, are bolted to the bottom of the ladder, to rest flat on



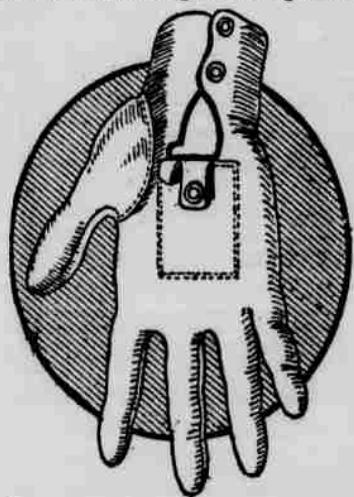
the ground. Two other pieces, properly notched at one end to fit the rungs, are extended to the ladder from the rear. These may be moved as desired, raising or lowering the ladder.

BUILDINGS MOVE.

ALL tall buildings are moved by the rays of the sun and the wind. The rays are strong enough to move the immense dome of the Capitol at Washington, D. C., six inches every day. The movement was proved by suspending a twenty-five pound lead plumb from the top of the dome, a pencil touching a piece of paper being attached to the weight. In the morning the sun caused the west side of the building to expand. As the rays reached the other sides of the dome, the expansion moved with them and at the end of the day the pencil had traced an ellipse six inches long.

GLOVE HAS A POCKET.

A MASSACHUSETTS woman has invented a glove with a pocket in its palm and is preparing to put it on the market during the coming winter.



The woman who likes a handy place to tuck away her carefare, latchkey, powder puff or small change will be delighted with the glove and its locking flap.

CRUISER HOME SHIP FOR SUMMER SAILING.

AN interesting type of water craft is that designed as a "home boat" by a Detroit naval architect, comprising a cruising capacity adapted for any summer vacation period, with exceptional accommodations for the party. The boat is 34 feet long and 11 feet beam. A state room, 7½ feet by 6½ feet, contains a double bed, with ample locker room, and connects with the main cabin, a room 9 by 10 feet in size, on one side, and with a toilet room, 4½ by 6 feet, on the other. The gallery or kitchen is 5½ by 6½ feet, equipped with alcohol range and every convenience for cooking, and has a large hatch in the deck above for ventilation and light. These rooms have 6 feet headway, and every inch of space is utilized. The main deck is 19 feet long and is well protected by a railing, and may be cov-

ered with a canvas awning if desired. The engine room is amidships, within easy reach, the engine compartment being entirely separate and well ventilated. It is arranged for the installation of a 20 to 30-horsepower 4-cylinder engine, which will drive the boat at a speed of about 10 miles an hour.

RACE TOLD BY THE HAIR.

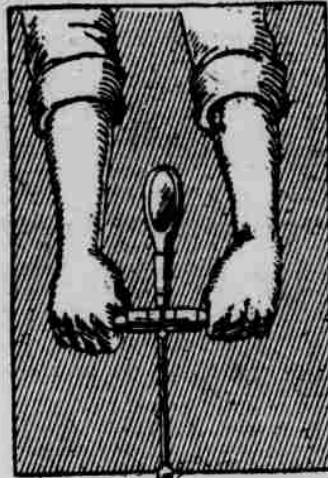
SCIENTISTS are able, by the use of the microscope, to tell from a single human hair to what great racial division the original wearer belonged. If a cross section of the hair is elliptical the man was black; if round, the man was yellow or red; while the white man's hair is oval.

The Australian native has hair with the least diameter, the bushman of Africa the next, then the American Indian, the Chinese, the white races of Europe, and lastly, the Japanese, the coarsest of all.

The beard of a white man is 50 per cent thicker than his hair, and is almost identically the size of the hair of the chimpanzee. The strength of human hair is, as a rule, in direct proportion to its thickness.

TRIPLE SCREW DRIVER.

FOR use when it is necessary to get extra pressure, a screw driver with a couple of auxiliary handles has been invented. The extra handles are detachable, being intended for use only



when it is desired to move a screw which has been rusted in place or is held by an accumulation of grime or grease. The handles permit of greatly increased force.

North Bank Booklet

EIGHT great productive counties of Washington are traversed by the North Bank road. These divisions and their respective communities, their industries, products and agricultural development are noted in an attractive 36-page booklet just published by the Traffic Department of the Spokane, Portland & Seattle Railway.

The sub-title, "Prosperity Counties Along the North Bank Road," defines the character of the text and the illustrations which are numerous. Every section has representation and the varied resources are enumerated in detail. Looking through the pages the most casual reader cannot fail to be impressed with the remarkable diversity of the districts of Southern and Eastern Washington lying east and west of the Cascades.

"The North Bank counties," says the introduction under the title of "A Progressive Country," "have everything that makes for permanent wealth. Along the slopes of the Columbia are sunny plateaus, rolling hill lands, wooded lands, mountain, valley, bench, river, meadow and lowlands. . . . Home makers have accomplished within a few years equally wonderful results on irrigated and non-irrigated lands. . . . The soundest foreword that can be offered the prospective home-locator or investor is: Take the time to investigate these districts; talk with others who have made and are making good."

After describing each of the counties and their geographical divisions, the subject of markets is touched upon, in a chapter entitled, "Market Outlets and Cities."

The purpose of the publication is to attract the attention of the intelligent agriculturists of the East to the splendid possibilities of the southern border

counties of Washington. Different sections offer almost unlimited possibilities in many lines. The chances for capital and labor, it is pointed out, are excellent. A very useful map is inserted in the booklet in anticipation of coast-wise travel during the coming autumn. Large distribution of the booklet will be made through local commercial clubs, the state immigration department and by immigration agents of the railway system throughout the Eastern states.

THE MICROBE MENACE.

OUR wide general information, in this day of the Sunday newspaper, tells us that the real danger of the time is the quiet microbe. We could even wish that microbes clanked chains, and then we would know they were about and speed for the prophylactic. The innumerable devils of the Middle Ages, invisible but always somewhere in the neighborhood, have been neatly replaced by the discoveries of bacteriology; and if we hadn't got used to them, living would be an almost impossibly anxious performance. The vacationist, reading the warning issued by his government against the bacterial dangers of simple country living, would stay hopelessly in the city—and then, learning of the bacterial dangers of summer life in town, would eventually be driven to suicide by drowning as the coolest way out of his troubles.

Microbes, microbes everywhere,
In the water, in the air!
Kicking up a deadly row,
In the product of the cow.
You can almost hear them mutter
In the milk and in the butter.

Most fruit juices used in soda fountain trade have been artificial. Plans are now on foot to utilize prunes and other fruit that generally goes to waste for the making of syrup for this purpose. The first factory is planned for Olympia, Washington.

Many a case of illness comes from a cellar that is not kept in a sanitary condition. How is the one under your house?

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