

SPIDERS DO WORK IN ENGLISH PLANT

SPIN THREAD TO MARK CENTER OF LENSES IN TELESCOPES

Girls Care for Them, Can Tell Them Apart and Often Call Them by Nicknames.

In a large English factory that produces surveying instruments, spiders are probably the most indispensable workmen. It is their duty to spin the delicate thread used for the cross hairs that mark the exact center of the object lens in the surveyor's telescope.

Spider web is the only suitable material yet discovered for the cross hairs of surveying instruments. Altho this fiber is almost invisible to the naked eye, the powerful lenses of the telescope magnify it to the size of a man's thumb. Human hair when magnified in the same way has the apparent dimensions of a rough hewn lamp post. Moreover, human hair is transparent and cross hairs must be opaque.

The spiders produce during a two-months' spinning season thousands of yards of web, which is wound upon metal frames and stored away until needed. A spider "at work" dangles in the air its invisible thread, the upper end of which is attached to a metal wire frame whirled in the hands of a girl.

The girl first places the spider on her hand until the protruding end of the thread has become attached. When the spider attempts to leap to the ground she quickly attaches the thread to the center of the whirling frame, and as the spider pays out its web she wraps it round the frame. At one time she removes from the spider several hundred feet of thread.

The spiders are kept in a large room under the supervision of three girls and a forewoman. When the

little workmen are not spinning they live in a large wooden cage. Flies are their chief article of diet. During the winter months the spider colony usually dies, and an entirely new corps of workmen must be recruited. Not every spider will do—only large fat fellows that spin a tough thread are suitable. The girls who have charge of the spiders are not the least afraid of them. On the contrary, they regard them as pets, can tell them apart, and often call them by nicknames that humorously described their appearance or their peculiar habits of work.

STREET OF MARBLE UNCOVERED

Found at Alexandria, Egypt, in Drainage Excavation.

Alexandria, Egypt. — Excavations here for the purpose of a new drainage scheme has brought to light a large and excellently constructed conduit, obviously of Roman origin, through which flows a stream of clear water.

Another discovery is that of a splendidly built road 13 feet below the surface paved entirely with blocks of rough marble.

MILK SAVES BURNING BARN

Farm Hand Heads Off Flames in New Manner.

Waynesboro, Pa.—If milk had not been used for fighting fire in the large bank barn on the Strickler farm, near this place, a few days ago, the loss would have amounted to several thousand dollars. The fire was seen by Mrs. Elmer Beeler and Arthur Kirkpatrick. Filling several buckets with water they started for the barn, but found that a man who was milking cows in the barnyard had subdued the flames with three pails of milk.

The first real Pullman, built in 1863 costing \$20,000, was operated solely for men. Mrs. Abraham Lincoln was among the first women in this country to travel in a sleeper.

Three hundred years ago any man absent from church on Sunday was fined a shilling. What a war revenue that would produce now!

Household Hints

CHEAPER CUTS OF BEEF

The following is a list of the cheaper cuts of meat with method for cooking them to attain the best results.

Chuck: This includes the entire shoulder and contains five ribs. The first are usually sold as shoulder roasts or steaks, and while they are of about the same quality as the upper rib, they cost considerably less. The remainder of the chuck is especially suitable for pot roast, boiling or stewing; requires long, slow cooking. As there is a good deal of bone in the chuck, its relative cost should be reckoned on the fact that it includes 10 per cent waste.

Shank: According to market price this is the cheapest part of beef. However, it contains from 34 to 37 per cent waste and requires long cooking. It is used for soup and stews.

Brisket: The demand for this cut is steadily increasing and it is used principally in stews, pot roasts and soups. It is also excellent for corning, as it contains the proportion of fat and lean necessary to obtain the best results. It contains 23 per cent waste.

Plate: Also known as the navel end. This sells at a low price and is suitable for stews, soup and corning.

Flank: One of the boneless cuts containing practically no waste (from 1 to 10 per cent.) for stewing, braising or baking. It contains the flank steak, which has no waste. It is desirable as a steak, costing less than the loin steaks, but excellent when subjected to longer, slower cooking. This cut makes a most delicious Swiss steak. Also used extensively for broiling, roasting and for braising. The fibres in these cuts are stronger or tougher than those in the loin, and should be broken before cooking by scoring crosswise. In cooking, the first essential is to sear both sides of the meat so as to retain the juice.

Rump: Like the round, this cut is nutritious, but requires careful cooking to render it tender. Contains slightly more waste than does the round. Good steaks are obtained from the rump; it is also used for pot roasts, braising and cooking.

"SLEEPING BEAUTY" OF THE PRESENT DAY



Compare the "sleeping beauty" of the fairy tale with this photograph and then admit that the girl of today with the novel pajama makes the prettier of the two. The pajamas are made of pink satin combined with georgette. The jacket is also of georgette.

A man would be given a patrol joy ride if he wore a suit made from striped awning; but a woman can get away with it.

The man who tries to buy his way into Heaven may discover later that he gave up money to an unauthorized representative.

We know a lot of men who always grumble about hard times, yet they would consider it an insult if they were offered a job.

It is the rotten kind of folly for a man to expect the world to grow better and for a woman to notice improvement in Israel.

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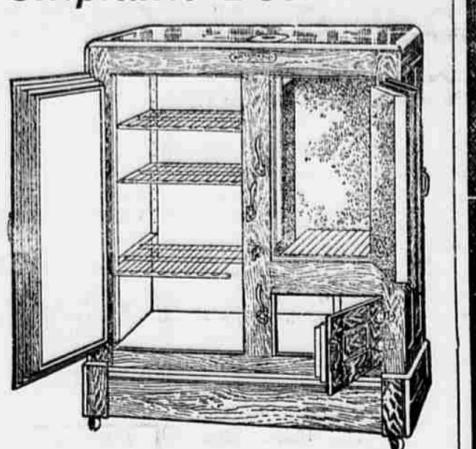
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Not enameled—made of ash—golden oak finish—3 shelves, non-clogging trap—holds 50 pounds of ice.

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Illinois Ice Chests at \$8.50, \$10.50 and \$12.50.

Favorite Granddaughter of "Uncle Joe" Aids Red Cross

DANVILLE, Ill., June 13. (Special) Miss Virginia Cannon LeSeure, young granddaughter of "Uncle Joe" Cannon, veteran Illinois congressman, is "doing her bit" in the service of the Red Cross.



Miss Virginia LeSeure in her Red Cross nurse's uniform.

"I never was so proud of anything in my life," Uncle Joe's favorite granddaughter exclaimed when asked about her work. "I'm learning the real joy of service. Of course there aren't any parades or anything of that sort now that there is war; and in this terrible time I think it's beautiful to be doing even a very small something that is useful."

But it isn't after all, so small a something that Miss LeSeure is doing. With the opening of the Red Cross headquarters classes in intensive training in Chicago, she enrolled and worked devotedly until her course was completed.

Arrived home, she reported for service to the chairman of her Red Cross chapter. Immediately she was authorized to open classes in the preparation of hospital supplies, she began to rally to her standard her hosts of friends among the city's social elite; other hosts from the ranks of the business girls; and still many more

women from the humbler homes—sisters all in their consecration to their country's service. All that she had learned she taught to them; and never was straight-from-headquarters instructor more punctilious or more exacting than this petted society favorite. Women who have known her all of her happy, care-free life, were amazed at the ability and the qualities of leadership she has developed.

Nor did her service end with her classes. With the chairman of the Red Cross chapter she has toured the surrounding community, and never did her distinguished grandaunt stump for home county with greater enthusiasm or more satisfactory results than his pretty granddaughter is doing. Making speeches like a veteran, speaking from the platform of a gaily decorated theater or hall, from the tonneau of an automobile or perched upon a box high in the air, this girl who have never before done anything useful in all her pleasure-filled life, is earnestly spreading the gospel of the Red Cross, enlisting under its banner hosts of men and women who have got to fight, she assures them, "the biggest, hardest battle of the folk who stay at home and back the army to the limit."

A MECHANICAL BOOKKEEPER

Iowan's Invention Adds, Subtracts, and Makes Change.

A machine of simple construction, which adds and subtracts, has been invented by an Iowan, and is being manufactured in Iowa. The complexity of earlier machines on the market is said to have been avoided in this one.

In addition to its simplicity the machine is said to be a mechanical bookkeeper. It will take debit and credit items intermittently at the will of the operator, without the necessity of using subtotals, and will give total results. It is especially adaptable for the finding of trial balances. It will produce a customer's bank statement entirely comprehensive to the depositor. It will keep cash records, merchandise records and will make the proper change to the man who proffers a check, returns articles for credit or makes numerous purchasers of old amounts, and will do all at the will of the operator using one hand and manipulating three levers.

CAN SHOOT CHUTES TO SAFETY

Powder Factory's Means of Escape in Case of Fire.

Shooting the chutes out of a burning powder factory is a safety provision in a big plant at Carney's Point, N. J. Just under the windows of the buildings are fire escape platforms from which lead metal chutes. In an emergency the men can run thru the windows and slide safely to the ground. So convenient are the chutes that many men use them daily when leaving the plant.

In about fifteen years Argentina has tripled its area of cultivated land.

HUGE WAR APPROPRIATION

The war budget bill, appropriating \$3,300,000,000, has been passed by Congress after being changed somewhat in the conference committee. The bill includes \$750,000,000 for the ship-building program.

NEW SYSTEM OF PHOTOGRAPHY

Scientist Makes Motion Pictures Easy for the Amateur.

If your little brother or sister could make 600 separate and distinct photographs of you in one minute and twelve seconds, show you the negative inside of ten minutes and give you the chance to select any one of the sixty dozen poses for enlarged photographs, all within an hour, you might be willing to admit that painless photography has arrived. A French scientist, now in New York, N. Y., has evolved a wholly new system of photography which is not only revolutionary as to simplicity and economy, but which places the motion picture easily within the reach of every amateur.

With a standard glass plate negative in horizontal and vertical rows, something like 600 exposures can be made by the new process. When the camera has recorded the series of poses, the negative is removed from the light-proof magazine and developed in the usual manner. A positive glass plate, or lantern slide, can then be made from the negative.

GENTLE JABS

Blunt men often make the most cutting remarks.

Wise men get a lot of free instruction from fools.

All the world's a stage, but some prefer automobiles.

Some men are hard drinkers, but others find it easy.

It's always a big bore for a burglar if the safe is locked.

More failures are due to lack of will than to lack of strength.

You can also judge a man by the company he keeps going.

Spite enables a fool to believe he's happy in his unhappiness.

The old Bifocal
With the disfiguring seam or hump.

The new KRYPTOK Bifocal
With clear smooth even surfaces.

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