great number of the clothes moth larvae at work on the surface of his models he succeeded in producing a balloon about Succeeded in producing a balloon about four feet in diameter, two shawls literally as light as a feather, and a seamless dress with sleeves. This dress, presented to the Queen of Bavaria and worn by her over her court costume, a frock for which have elether works of golden wire over the trees and bushes in the gardens of the quarters occurred by elether works and seamless are considered. which, in the well-known fairy tale, the King's son drew through a finger ring scarcely could have been finer or more compressible. It is, indeed, light to a fault—the merest zephyr is enough to carry the whole dress away.

little Frenchman, M. Bon, turned his attention to spider-webs, and discovered of the irregularity of the threads. Dewhat to him was a new and interesting fact: that female spiders when they had laid their eggs, immediately proceeded to weave webs of strong silken threads, forming cocoons about them. He had conceived the idea that spiders might, to some extent at least, take the place of silkworms, and be made to furnish materials for silk and satin fabrics. It is true that the web used by spiders to capture unsuspecting flies proved on trial al-

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is now in the British Museum a pair of gloves made of the byssus of the giant pinna, a species that sometimes attains the length of two feet, and gloves and purses of the same material may be bought at any time in the cities on the Mediterranean coasts.

The Queen of Bavaria is said to have once worn a dress of a still more remarkable fabric woven of silk actually spun by clothes-moths, whose specialty has always been supposed to have been to destroy, rather than to produce materials of which clothing is made.

A Mr. Habanatrast is to destroy, rather than to produce materials of which clothing is made.

A Mr. Habenstreet, it appears, having noticed that the larva, or grub, of a particular kind of clothes-moth called the Tinea padella spun an extremely delicate and fairy-like silk, set to work to make fabrics composed of this silk. An opportunity insurmountably difficult first emcountered in carrying out his purpose was the fact that the flat patch of silk spun by each of these larvae measured only about half an inch square; but by placing the larvae and making them spin in close proximity to each other he discevered that the squares united at the edges and produced a continuous fabric. Mr. Habenstreet constructed a number of models of paper, oiling the parts not to be covered with silk, and by setting a great number of the clothes moth larvae at work on the surface of his models he at work on the surface of his models he had the presented them to learned societies. After the expenditure of time, labor and money, he retired to hide his head in the obscurity from which he had temporarily emerged, while the nobly-born de Reamur wrote a paper on the possibility of spiders being used to produce silk—a famous paper, which became so widely known that the Chinese Emperor caused it to be translated into Chinese. But the noble French people never forget good M.

baby clothes-moths not only spun the material but made it up as well, is the most delicate thing imaginable. That accomplished with French spiders, it oc curred to him to try what could be done with the greatly superior silk of the

Madagascar spiders. He began by collecting the numerous webs, and with infinite patience he carded tury an enterprising and enthusiastic little Frenchman, M. Bon, turned his attention to spider-webs, and when the spider webs, and with infinite patience he carded and spun them; but the fabric woven from this silk, though immensely strong, was commercially of no value or termined not to be beaten, however, he tried by every means in his power to obviate this difficulty, and at last managed to draw the silk directly from the abdo men of the spider, inclosing the insects in old match-boxes for the purpose. It is precisely this principle which is followed in the schools of Madagascar to-day, and the good father can honestly claim to be the inventor of the system.

The French have taken the subject seriously, and professional schools have been founded for the scientific propagation and the cultivation of the spiders and for the instruction of the natives in rinding, spinning and weaving the silk. These schools are due to the initiative of General Gallieni, and are the most useful works instituted by that energetic officer, supplying as they do immediate employnent for the natives, as well as forming nucleus of an industry whose end in ments.

Foundry,
Delevan, N. Y.

this age of progress it is impossible to foresee. The spider, which the natives call "Halabe," belongs to the Nephila, a

Stuyvesant.

and so they are in most instances. Someand often, says Professor McCook, "with a luster like spun glass." In the silk used by spiders in making their cocoons there also are a variety of hues—yellow, pagne plant in the country, and one that Been Accused. green, brown, and even various shades of more brilliant, no yellow ever more pure in tint, writes Whitley. "Its extreme fineness, its elasticity and tenacity, in which it far excels ordinary silk, allow it to be woven into tissues of fairy-like fineness, of exquisite suppleness and substantial enough to stand the wear of ages." Those who visited the colonial section of the Paris Exposition perhaps will remember of seeing a specimen of the tissue into which this beautiful spider-silk can be woven, made into a comthe tissue into which this beautiful spider-silk can be woven, made into a complete set of bed hangings, while halabe spiders were exhibited at work. But we have in our own country a near relative of this French-African spider, and one apparently just as capable of being made of value. Like the halabe, it spins a great quantity of strong, beautiful, golden silk, and like the halabe yields thread that can be spun and woven into lustrous and substantial fabries. Tais is the Nephila Wilder, named after its severely coverer. Dr. B. G. Wilder.

a little south from the narbor of Charlestown, South Carolina," he says, "a very champagne maker must not only be an large and handsome spider whose web expert viticulturist, but he must also be was at least three feet in diameter. I entangled her in her web, and carried her to my tent. The creature was very quiet and did not attempt to escape; but presently after crawling slowly along my sleeve she let herself down to the floor, taking first, the precaution after the taking first the precaution, after the prudent fashion of most spiders, to attach to the point she left a silken line the Elivira and White Diamond, which which, as she descended, came from her are white grapes, the Duchess, a black body. Rather than seize the spider herself, I caught the thread and pulled. The the Emelon, which is a dark grape. The spider was not moved, but the line read-juice of these is expressed separately in the fall, allowed to undergo the first fer hands, it seemed so strong that I attach- mentation naturally, and then allowed to ed its end to a little quill, and having placed the spider upon the side of the tent, lay down upon my couch and turn-

tying the other end of the spider thread to the arm of an accurate balance. He found that it would sustain fifty-four grains before reaching the breaking point. By a simple calculation from this, Dr. Wilder found that a solid rope of spiders' silk one inch in diameter "would wines in the spring, the blend is made"

ples which betters are placed in conduction possible possibles. A spiler is placed in each cell, with the abdomen projecting on that the spiler is the first many the best that the project which the spiler just in front or the sholmen and held in methods. The jeas rebought forward, and they and the head and forward part of the body are in the cells, while the addomen energes beyond it on the archer's bed of the nother jupes of the body are in the carbon which is the cells, while the addomen energes beyond it on the archer's bed of the nother jupes of the body are in most in protein and the project in the cells are not drawn from the addomen of the headles. This is done by gently laying a finger on each spiler in three cells are so drawn from the addomen of the headles. This is done by gently laying a finger on each spiler in three cells are as well as in morth in force of the spiler in the cells where the project is the control of the cells, while the headles. This is done by gently laying a finger on each spiler in the control of the cells while the headles. This is done by gently laying a finger on each spiler in the control of the cells while the headles. This is done by gently laying a finger on each spiler in the control of the cells while the headles. This is done by gently laying a finger on each spiler in the control of the cells while the headles. This is done by gently laying a finger on each spiler in the control of the cells while the headles. This is done by gently laying a finger on each spiler in the control of the cells while the headles. This is done by gently laying a finger on each spiler in the control of the cells while the headles. This is done by gently laying a finger on each spiler in the control of the cells that the cont uicker than other wines. Absolutely, been discovered by accident. however, New York is second both in uantity and value in the United States, with Ohio third.

n, brown, and even various shades of compares favorably with some of the The thread drawn from the halabes famous European plants. There are reg-

The process of making champagne is "I found in a tree on a desolate island an exceedingly intricate one, and one determine the proportions of each needed to produce the perfect blend. In their separate state they are known to the wine makers as champagne wines. A perfect champagne should contain about yards of the most brilliant and beautiful golden silk I ever had seen." Much greater quantities of silk afterward were wound up with rude appliances constructed for the purpose. The doctor tested the strength of the line spun by this spider by attaching a single silken filament, one four-thousandth of an inch in diameter, to a fixed point and tying the other and of the spider three decreases of such single silken filament.

SUME QUEER
SILK-SPINNERS.
SILK-SPINN

a, and champagne runs into value Many of the most popular varieties have you came in so suddenly, you see.—Tit-

CIRCUMSTANTIAL EVIDENCE.

"Several years ago I took a late train has a decided color. No gold was ever more pure more brilliant, no yellow ever more pure in tint, writes Whitley. "Its extreme champagne, and the regular annual out- champagne, and the regular annual out-

of good reputation. In the meantine some officers boarded the car, and after a little sweating got the money from the

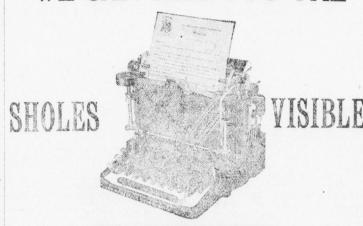
Here is a story we heard the other day be operated on for appendicitis. When the doctors began the work he asked for a preacher. They enquired what he wanted of one and he said that he wished to be opened with prayer."

The Kidneys

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