

HERE FLOWERS GET THEIR PERFUME.

Where the rose, and other flowers their perfume is a very intereststory.

plants is not always agreeable as me plants have a very disagreeable or. In some plants this odor is ntained in the leaves or foliage d is particularly noticeable when uised. Among these may be men-ned the various species of mints d sages. There are a number of tys in which this essential oil may extracted from the flowers.

That of distilling is best, but in me this cannot be done because of e delicacy of the perfume, and the bility to loss and deterioration ring the process. The flowers are posed in contact with purified rd or olive oil in suitable frames nereby the fatty substance is taken) and impregnated with the es-ntial oil is extracted from the fatty bstances by maceration with alco-l. An alcoholic essence is then tained, and it is from this that the rfumes that are sold are obtained. The attar of roses is the essential l of the roses and is chiefly produc- all the necessary guarantees of sein Hindustan and Persia. It is curity for passengers and pilots. id that the so-called attar of roses a essence of the Indian geranium ne ounce of the pure essence is lulterated until it makes twentyve ounces. This is shipped to the nited States to be used chiefly in e manufacture of soap.

Bulgaria furnishes ninety per cent. the world's supply. The price of sence varies with the condition of ie crop, but the quotation for 1925 as \$25 for only one troy ounce. tatistics for the year 1924 give the ulgaria as 11,000,000, which roughspeaking represents two billion ssoms. This produced 2,750 pounds the liquid and 220 pounds of the olid essence.

nese roses are grown can well be nagined. From Kornorio to Kaz- and start it off on the errand for nlik, a distance of about thirty , which it was destined. niles, in the southern foothills of the alkans, is located the famous Valy of Roses. White and pink Da- Crespy, as navigator and my son as ascus roses are here grown alterating with fields of waving corn filled and the plane sent out with nd wheat and the delightful fra- mail across the Atlantic just as soon ance emanating from these fields of as the motors give satisfaction and Montana and the western portion of oses is carried for miles by the vind. The work of caring for these elds of roses and harvesting the unnual crop of blossoms give employment to many peasants, but the tion. It was a monoplane which caries from smallest to the oldest are hus employed, cutting the blossoms most of the planes of that day were hand. Likewise, some of the moun emuneration is small. Whole fami- ried him across the Channel, and he and putting them in baskets; later, biplanes or carried many small plane tain districts have severe weather mptied into sacks to be arried to the distilleries where they As delay in the process of conveying hem to the distilleries results in a oss of precious perfume, no time is Four hours are required to convert when I learned that he intended to he blossoms into the essence. One acre will produce in the neighporhood of 700 kilograms of roses petals which is equivalent to 1,500 bs. To make a kilogramme of petals a peasant has to harvest approxi-mately 4,000 blossoms. It takes 4,-book kilogrammes of fresh roses to through the experiments. I believed produce one kilogramme of the liquid in the monoplane in 1909 just as essence. A large factory will, at the much as I believe in it today. I was height of the season, be able to use about 64,000,000 roses every twen- did not have the same theories about ty-four hours, producing from these, the future of aviation. 38 pounds of the attar of roses. There are two processes used in capable of flying at very low altitude the extraction of the essential oil of and really forming a "flying carthe rose. One is the old steam proon, and the other is the new process and seas. of distillation by gasoline. The "To me, the air is comparable to farmer produces the emerald-green the ocean. On water you need solid attar of roses, which crystallizes when it cools, but liquifies at bodily temperature. The latter produces a solid essence which is of a dark orange color, a greasy paste, with a the sea, and we have seen many air-very strong odor. About 500 lbs of ships broken in the air by wind roses are needed to produce one waves. pound of solid essence. This pound "That is why I never believe much of liquid essence may be sold for in individual aviation, one man planes \$300.00 out of which the peasant receives \$125.00 for the work of caring for and harvesting the crop. The solid essence will bring \$70 a pound but in that idea I see no progress. of which the peasant gets \$15.00. amount of roses required to produce the two kinds of essence, the liquid structing always to defeat bad essence requiring more than the solid. It is from India that we get the and using every feature of safety tradition respecting the discovery of that modern science can develop, the method of preparing the famous wireless, telephones, radiogoniometry attar of roses. It was an accidental discovery and came about in this manner: In an effort to please the voluptuous Jehanghis, his favorite sultana caused the bath in the palace garden to be filled with rosewater caused the oily particles, which were floating on the surface of the water. The action of the sun on the water caused them to concentrate, and the attendant imagining that the assistant secretary of commerce for water had become corrupt began to skim it for the purpose of taking off the oil. As the globules burst under this process, they emitted such a de-lightful odor, that the idea of pre-lightful odor, that the idea of preparing this delightful perfume was at once suggested.

FLOATING ISLANDS FOR AIRPLANES CROSSING OCEAN

The twenty years which have fol-lowed Louis Bleriot's daring flight across the English channel in a frail

monoplane, on July 25, 1909, have seen the aeroplane grow from a toy to a proven vehicle of commercial transport. Bleriot in an exclusive interview, predicted that long before the next span of 20 years is past, mail planes will hop off alomst hour-ly from Paris for New York flying The perfume of the rose, as well of other flowers, is contained in essential oil. The essential oil the essential oil the essential oil essential oil the es France and England feted Bleriot in celebration of his historic flight, the forerunner of the daily mail and passenger service which has existed

since the war between Paris and London. "The future of aviation is magnifi-cent," Mr. Bleriot said. "I am convinced that within a few years we will be flying between Europe and America as easily as we fly across the Channel today.

"The formula in which I put my conviction for a successful trans-Atlantic flying service in all kinds of weather calls for floating islands spaced from 300 to 400 miles apart along the Great Circle. They will be linked by a Hertzian system and the planes can be guided even in fog without any danger.

"Eight islands should be sufficient, being several hours apart in flying time. Such a scheme would present

the ounce of the pure essence ever Azores and Bermuda, but they must aches the United States and Eng-be multimotored planes "Postal planes could easily follow great speed and carrying a heavy load of fuel in addition to a heavy load of mail, large enough to pay their way."

Bleriot then announced for the first time that his factories are now completing such a multimotored plane with which he intends to blaze a postal trail along that route.

ed plane with a force of 1,000 hp., designed to carry more than half a ton mount of rose petals harvested in of mail or freight. Our motors present an innovation in airplane construction, being six cylinders in line, and they are giving us our only trouble at present," he said.

"I started to build this plane for The beauty of the scene where my son, but even though he died two months ago, I am going to finish it

"It was to have been piloted by Bossoutrot, with a naval lieutenant, wireless operator. His place will be prove their merit in trial flights over Minnesota have the most severe win the Mediterranean."

Bleriot still holds to the monoplane as the ideal type of construc-

It is more or less generally well known that all dust accumulations represent a menace of no mean proportions. Dust is explosive and many mills were wrecked by this mysterious power before the real cause was understood. In a mine, for instance, the explosion taking place in one chamber was carried to the next and so on until the explosive force swept through the entire mine and the workings were wrecked completely. It is only within a comparatively few years that it was ascertained that this march of destruction was conducted through the subterranean passages by the accumulation of dust on the walls and in the crevices. Now this is avoided by a coating which is sprayed on and which prevents the dust thus treated from exploding. In the case of grain mills the damage done by these mysterious bursts was particularly severe and the government agencies have been giving considerable attention to the study of these mysterious blasts. In the course of some experiments it was found possible to drive an automobile engine by

as Powerful Explosive

Dust Now Recognized

Dire Punishment for

Man "Mute of Malice" "Mute of malice" is a legal term of considerable antiquity, and applies to prisoners who on being arranged in court refuse to plead. In a recent Dublin case, counsel said that to seek a verdict of this kind nowadays was

only an "absurd formality." But once it was not so. Then pen alty was terribly severe. Here is an instance as late as 1740. A highway man, who pretended to be dumb and refused to plead at Kilkenny assizes. was tried as to whether he was "mute and lunatic by the hand of God or wilfully so." On being found "mute of "I am just finishing a four-motor- malice," he was sentenced to be pressed to death, a decree which was carried out in the market place.

"As the weights were heaping on the wretched man" (says an account) "he earnestly supplicated to be hanged. but it being beyond the power of the sheriff to deviate from the mode of punishment prescribed in the sentence, even this was an indulgence which could be no longer granted to him."-London Mail.

Noted for Severe Winters

The weather bureau says that, gen erally speaking, the state of North Dakota and the eastern portion of ter climate, although portions of northern New England and the moun tain sections of northern New York have weather conditions nearly ap over somewhat longer periods than 'When I flew the Channel I was in the sections previously mentioned

Henpecked Man Calls for World's Sympathy

I often think of the last czar of Russia. He was the ruler of a great country, with royal blood in his veins, and the owner of possibly the worlds' greatest collection of crowns, jewels, vestments and the like. His subjects pretended to love him, and reverently called him the Little Father. At a frown from him, great hordes of men sprang to arms. . . . Yet one night some men took him into a dirty cellar and beat him to death, together with his wife and children. . . . didn't know it for years, but I was always better off than the czar. . . . His main trouble was dreadfully commonplace; he was henpecked. So far as I am able to make out, from the records, his wife was one of those good women who, without the slightest evidence, believe in signs, omens, dreams, and find the truth shocking. . . . The rule is to laugh at a henpecked man. We should, instead, go to his rescue. I know henpecked men who are being as cruelly wronged as a man seized by bandits .-- E. W. Howe's Monthly.

Airplane Plays Poor

Second to the Birds A group of French scientists have proved to their own complete satisfaction that wonderful as airplanes may be, they still come a long second to bird flights. A single swallow is three times as swift and economical a flyer as the very best pursuit plane in the French army. Three scientists, Huguenard, Magnan and Sainte-Lague, have used a new "machine gun" motion picture camera with a

double objective to evolve a method for testing the "finesse" on real air. planes in actual flight and on birds in the air. The camera gives simultaneously on the same strip of film clear images

of a guiding mark on the ground six feet from its lens and of an airplane flying away, as well as a clear image of a man placed 150 feet away. Using it, the scientists discovered that a good pursuit plane gave a "finesse" inferior to 6. The "finesse" of a swallow was found to be at least 19.

Use Common Sense

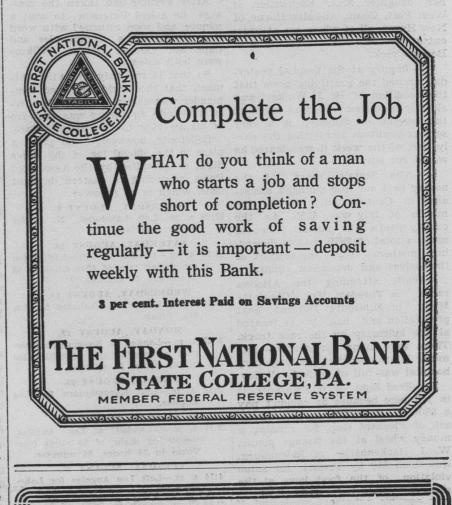
In the nature of things all ordinary stunts and feats of strength are at the same time wonderful exercises for those physical culturists who are advanced enough to be able to do them. You can combine the spectacular with the practical. The human system, no matter how robust, was never intended to handle packages weighing a couple of tons. Why not leave that to the elephants? Indeed, intended record-breaking lifts of any kind, with bar-bells or other weights, are not to be regarded as exercise in the proper sense, and should only be undertaken by highly developed professionals in this field-or by amateurs who have attained professional standing by way of accomplishment .-- Carl Easton Williams in Physical Culture Magazine. Holland's Independence

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re at once subjected to distillation. happy, but my greatest happiness and heavier snows may occur, but came from the fact that I found my usually the temperatures are not so theories borne out," Bleriot said. "It low during periods of intense cold as was conceived exactly along the for- occur in the lower levels of the states ost, and the distilleries work night mulae which are still applied. It first mentioned. and day during the rush season. made me confident in Lindbergh try the Atlantic in a monoplane which looked a good deal like mine but bore all the modern perfections. "My Channel plane was small and

carried a tractive propeller and through the experiments. I believed then associated with Voisin, but we

"Voisin favored the multiplane type riage." I saw distant horizons and cess, which is a very old one, and high altitudes, planes which could to repair the oversight, and took which has been little improved up- climb high and fly over mountains plenty of each away with them.—Ex-

> ships with as many guarantees of security as possible. It is the same thing in the air. The waves of the air are as dangerous as the waves of

"That is why I never believe much away at once." for tourist purposes. I would be happy to see such planes developed 'em to?" and aerial tourism become a fact, "Take "Aviation will furnish strength to any nation which sees the air as an ocean and builds solid planes, conweather and changes of temperature,

and Hertzian waves."

RULES FOR AVIATORS.

New regulations for airplane pilots, effective Sept. 1, designed to protect the flying public and aid the areonautic industry, have been completed by the Commerce Department under the direction of Clarence M. Young, areonautics.

The regulations provide that a

A minimum of 200 hours solo flying experience, knowledge of the government's air traffic rules and rig-id physical examinations at regular intervals are stipulated in the new regulations.

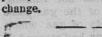
The new rules also require a demonstration of various emergency maneuvers such as spins, side slips, recoveries from stalls, and climbing turns.

-Read the Watchman and get all the news.

Afterthought

The polite guest in southern Arabia, says a writer of the National Geographic society, always secretes a few coffee berries in his turban, and thus supplies his own beverage at the house where he is calling.

I call to mind guests in this country who were not so thoughtful. They brought no coffee berries concealed in their hats. They brought no cream and sugar in their hats or elsewhere. They brought no roast chicken, bread and butter, salad, ice cream, or pie. But, when reminded, they were quick



Safer The famous man was furious when

he found a pile of paving stones outside his front door. "Here, you!" he said to a navvy

standing near. "Take these things "All right, guv'nor. all right," saio

the navvy. "But where shall I take

"Take 'em to hell for all I care." came the indignant reply.

"'Adn't I better take 'em to 'eaven gov'nor," said the navvy, helpfully. "They'd be more out of your way."-London Magazine.

Religious Reminder

The emblem placed on the door post of an orthodox Jewish home, which the guests touch when they enter is called "mezuza," which literally means "door post." It is placed there in fulfillment of the command in the fifth book of Moses. "And thou shalt write them upon the door posts of thy house and upon thy gates." The emblem contains a small piece of parchment or paper on which is written by hand the above quoted passage and others to remind Jews of duties toward their religion.

Better Take a Taxi "I never was so mortified!" ex-

claimed Mrs. Averdupois. "Yeah? What happened?" asked he. husband.

"I got on a street car today," salu the lady of many pounds, "and a rather thin man got up to give me a seat, but as the man next to him wouldn't get up, too, I had to stand and listen to the rest of the passengers in the car snicker."-Cincinnati Enquirer.

An error often made is to attribute Dutch success in the war for independence too much to William and to Dutch pluck and endurance. Both these were inestimable factors in the defeat of Spain. But William died 25 years before Dutch independence was recognized and Maurice of Orange and Oldenbarnvelt must both be given their due for their work after his death.

Nor must Spanish inefficiency and poverty be forgotten. A Spanish captain once said: "If death had to come from Spain we would be sure of a long life," and twice Philip had to repudiate his national debt.-New York Herald Tribune.

Danger From Marchers

The director of the Engineering societies library says that soldiers marching in step across a bridge might cause failure of the bridge due to too great a load or due to vibration. If the type is known, together with certain other details of its construction, it is possible for a bridge engineer to calculate whether or not the bridge will break. It is sometimes possible to produce oscillations in a bridge by men marching in step, and these oscillations may be sufficient cause to break down the bridge. In 1850 a suspension bridge at Angers, France, gave way when 487 soldiers were marching over it and 226 were killed.

Three-Minute Egg

A Detroit woman who put in a long distance telephone call wanted to talk only three minutes. She decided to time herself with a contrivance used for timing eggs being boiled. The device is fashioned on the principle of the hour-glass and by setting it near the telephone where she could see it, she felt she was able to get the full benefit of her conversation over the telephone without any danger of talking longer than she desired .- Detroit News.

The Way It Goes

"That bird is so lucky that no matter when he gets downtown he always arrives at a parking place just us some other fellow is pulling out and he can back right in." "And I am so unlucky that if I

surned into a street, hunting one, I'd get there just in time enough to see a dozen machines backing into open spaces that hadn't been occupied for at least half and hour."

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