THE CLIMPTOLIC COURTAL

WHY= Effect of Lightning on Trees Is Important.

Very frequently the old belief is the correct one and is so because it is based on the observations of many. Just now the United States government is testirag one of the old "they say" theories regarding trees and lightaling. Time immemorial the woodsman arad even more so the shepherd has believed that there was greater danger from lightning stroke to those standing iseneath certain specles of trees Why this should be none could tell logi cally. though the fact, if it is a fact, whis emough to give birth to various my thical explanations.

But now the government wishes to know positives y what truth there is in the ancient wishern of superstition This study is being made not in the interest of the occasional stgrmtrapped man so that he may seek shel ter under the sufer tree, but in the interest of our great forest wealth. The dightning bolt is one of the important causes of forest fires and the forest service wishes to know whether there are certain tree species that must be specially guarded ugainst as offering the greater electrical attraction. If it of 4 found that certain growths escape such heavenly uttacks it may be possible to neglect those and concentrate on the more susceptible growths.

Atany rate that is the line of study the authorities are pursuing, and it is may be that the othervations of the shepherds, of Hebron will be verified among the forests of our American a Far West

Why Human Porterage Is Universal in China

In the absence of railroads in southwest Chiana and because of road [conditions goosis in transitare general ly moved by pack anitnals or coolie power. In certain sections, however, coolles' guilds refuse to permit competition from melt an finals. Consequentiy a consider-able portion of goods transported is handled by porters and in many places they hold a freight wonopoly.

Porterage is usually done by contract, each man undertaking the delivery of his Boad at a point a given of distance away. The porters as a class are young men, necessarily vigorous, with specialized muscular development and pads of crellus on a line across the shoulders. They are invariably oplum How German Scholar smokers.

They usually travel in groups of ten to twenty for company and mu-

HOW SILKWORM OPERATES IN PRODUCTION OF FIBER.-One of the must perfect and beautiful silks in the world, is that produced by the silkworm Pure silk begins as a fluid says a writer in Tit Bits. The fluid is manufactured by a pair of small glands inside the slikworm's head. It is not a silky fluid at first, but a kind of hom -if you can imagine hom melted down and diluted. This substance, which is called "fb-

and elasticity Immediately on leaving the glands the fib-roin flows into a minute reservoir, where it is surrounded by a second material called "sericin," which is manufactured by another pair of glands. This is a gummy fluid, which forms an outer covering to the fibroin and gives it a shining appearance.

roin," gives silk its toughness

Now the silk material is complete, and only requires to be formed into thread. After passing through the reservoir, it is forced into two little flattenel tubes with strong muscles that work above and below them, and souceze out the silk in the form of two tiny ribbons.

The two little ribbons are next welded together by means of another minute organ, and issue from the caterpillar's mouth as one thread, which hardens directly as it is exposed to the air.

If this tilk is bolied in soapy water it will be found to separate again into two fine threads. This double thread is strong enough for the insect's purpose, but it is too fine for our use, so the threads of several cocoons have to be spun together. Eight cocoons at a time are used in the making of ribbons, and fourteen in making velvets. The length of thread which can be taken from one cocoon of the mulberry silkworm varies very much, but the average yield of a thousand cocoons is about 500 yards of slik, ready to be placed on the loom

Gave Name to America America was named, of course for he New world five years after its Reports from South Africe indicate to show that South America was a that beels unduly low invariably came finally to be extended to the waiking." northern continent as well as the southern.

Bizarre Footwear Orcaid Lame Wrap Is Loses Popularity

Lack of Viclent Colorings and Heavy Trimmings in New Shoes.

Bizarre trimmings, Jurid colors and streme lasts have lost caste with the Paris bottlers and, incidentally, with the smart Parklenne, Simplicity, notes a Paris fashion correspondent in the New York Herald-Tribune, is distinctly the essence of the new shoel and there is a marked lack of the violent colorings and heavy trimming that were recently en vogue,

No radically new types are shown and the principal shapes are the broad one-strap model, the closed or ford and the Prince of Wales. Open oxfords, step-ins, opera pumps and center-strap types also are being affected during the afternoons on the smart avenues. Brown is the leading color and calf, suche and kid are the outstanding leathers. Following them in popularity come real and imitation lizard, alligator, water snake and python. Fewer novelty leathers are being exploited among the new slip-DETS.

Trimmings are notably more discreet and while they are seldom en tirely absent they never reach the ornate heights of last season. Thus toe caps and heel quarters are an outstanding method of elaboration. Some times both of these are scalloped, Tinged tongue effects also are be ticularly gorgeous array of avaning of parochial schools here save Santa ing widely featured and occasionally wraps. From the warmth-giving web Barbara taxpayers 168 10 and wally an insert of lighter-toned leather is wets, rich in embroidery, in best and There are Si publis in the Oakholle employed to give a cut-out effect. In paillette to the lightest of chilfont, the grammar school, here and all pulled deed, it may be said that the smart mode is varied and extremely small. In the high school, est method of shoe decorations are ful, Dorothy Mackalli, motion picture. "Californ is is the only state in the contrasting trims of matching or OP active, whe wears many share in tinton which takes particular to be out posite colors.

For semi-formal models black satin Road to Romanice," has effected a manis easily the premier fabric. Closely tigularly plansing wrap of would Shimek Called interving it is black patent kid, unually employed in combination, Thui smart lines. a black patent quarter, a black and

silver brocade vamp and a baige kid heel frequently are encountered in . Homely Girl Benefits ingle type. Restrained decoration, as with afternoon sports models, also

Paul Poiret has some very definite ers, boin at home and abroad, an con-ideas about summer footwear and he centrating on this department of insihas laid down the following doctrines work, and the result of the storm is Chicago, was graduated from Mar-

for his clientele : Daytime footwear halled by Hazer Rawson Cades h the quests last month. He is espected to should be unobtrusive; ornate trim. Woman's Home Companion in the loin the United States Olympic teams mings and radical color combinations most pleasing and useful development for the 1921 ramys at Antworp should be sedulously avolded. Chic in years of fambloan history.

should consist entirely of cut, and cut, "Sports clothes are the treat equal. BUSINESS REVIEW. tual protectione. and it is quite common Americo Vesprice, the Florentine nar while it may occasionally give the an iner of beauty, anys Mine (acces for the bearers of two or three differ- Igator and merchant, who first visited pect of inxury, always should be fun. "Heretofore many girls whose looks izmentally simple. Here should be started being spoiled by bound with for days at a close. Their we ges aver- discovery by Columbus. Vespuce was neither as high as they were during fies have gone on being implied by AUTOMOBLEMET age about \$1,5-0 a day and are paid in a ship chandler in Spain, and having the very feminine pre-war period, not one feminine thing after another all. Nath Gates Con, fifs (usver Model to ft out a number of expedi-as low as the extremes of the current their liver. But now Marguerile of an another all as low as the extremes of the current their liver. But now Marguerile of an another all as low as the extremes of the current their liver. But now Marguerile of an another all as low as the extremes of the current their liver. which they travel Bare tiving ex- tions, decided in 1497 to make a voy- mannish mode often have made them, the big blue eyes and the bobbing which they travel Bare living ex-penses take mhout 35 cents of this, leaving \$1.15 for epium and display. Why Ostriches Are Slain Benoris from South Africe Indicate that from 400 to 500 estriches are to show that South America was a that heels unduly low invariably "However there are many there to be well statightered only to the Cudt was translated into several languages to be was translated into several languages, heavy and ungraceful gait. The va- given the proper air. Above all BAKERING and tid much to acquaint scholars rious reptile skins, such as snake, things, they should be simple, mai- Town Talk Bakery, with the character of the transatiantic lizard and python. are mushroom fan. feeted and easy fitting, not too intraindiscoveries. For this reason, one of tasies, and while they may be worn iy masculine and never too fully his translators, the German, Martin during the immediate season their English sports clothes have never of Waldseemueller, proposed in 1507 that vogue is bound to be brief. In gen fended by being too fancy, but are the new continent be named for Ves- eral, the most adaptable shoe leather occasionally somewhat still and try pucci. The suggestion had a gradual is kid-it can be dyed in soft and ing for the average woman. The adoption, and the name America, delicate colors, it molds the foot and French are apt to sacrifice utility to CINDER BELOCELA which Waldseemueller had offered, it is conducive to easy and graceful chic, which is rather a mistake, for it they are to be convincing, they should look useful whether or not they are CONTRACTORS: really over put to the test, Smart Street Outfit "Simplicity of type does not permit carelosmess about accessories, -To of Two-Piece Variety the contrary, assembling i sports cos COAL & CORE: tume is a ticklish business. Anything fancy added pretty hear rules if It's like trying to introduce finger bowly DRUGS: -at a plenic."

19. A.

NOT CONTRACTOR IN Or Church Richly Eurred, Draped

London: July 35 -In appropriate ing the title of Primitive Seripsional and Evangesian non-Calmolics are claiming influe which belong to the Catholic Church alone declared Cardinal Bourne in a sernosa at

The Catholic Church proved her laim to these trtles, said His Eminnce, by teaching that Our Lord came to teach a dofinite doct rine hat He instituted one contral act of worship and that He established the upostolic See as the centre of sanity and the source of authority

Save Sunta Barbara \$68.470 Each Year

Santa Barbara, Calif, Juli 26.-Mayor T. R., Pinley and members of the city council of this place, alting ss a body of equalization, voted that asseriments arainst Catholic school property remain unchanged A. H. Adrian, former minyor of Santa Barbars, appeared before the board, and entered a request for a reduction of the assessment sgains school properties, claiming that the ity is saved considerable explane through existence of the schools Mr. Adrian who was also superintendent of ichopia here at one

The summer season ushers in a partitime, stated that the Witwollars mant

Note 1492

sowns and wrape in the film "The Mr. Adrian told the board

Best 2-Maler

Chlosgo, Ill, July Il --- Kauste K Rockne, athletic director at the Uniby New Sports Cloines versity of Noire Dame lists Melvis Shimek, who won his sveni at the national intercolligiate games in







between a trume that holds pro-ruptare performing and beaution does not:

With a trung that boids a Politica antioxia: illustration A little werken of a second se

will hold perfective "Comesting and let us toll you abe Ceorra II Calling 5 Receive Des

Line Contract in

1 Sept Same Ser.

shoorn district, the principal center of the ostrich feather industry, due to the high cost of feed for the birds and the lack of a market for ostrich feathers. The slump in the world demand has made the birds practically valueless and the Co-operative society. through which the farmers are required by law to dispose of their feathers, is unable, financially, to take up this year's crep.

This society now holds practically all of last year's crop and is said to be in serious straits as it makes advances to farmers against leathers deposited. In 1923 there were 384_884 pounds of ostrich feathers exported, while last year the exports totaled 141,600 poundes.

Why Hail Differs

summer hail, or true hall, is caused so high that they freeze. On freezing they pick up more water and again to invent are caught in an upward current and carried upto the freezing levels. This is repeated several times, until the hallstone gets so beavy that it falls through the rising air down to the earth. The winter hall, properly called "sleet," consists of frozen raindrops, the rains having fallen through a surface layer of cold air.

Why Horseshoe Is Hung

In one of the county institutions where bad luck and misfortune enter the door with the great majority of people stepping across the threshold, a large hourseshoe hangs in plain view. When asked regarding the instrument of lunck, the clerk replied that it was there as a beacon of hope to those entering the place and that frequently people expressed their betief in the luck it would bring them -Detroit News.

Why Eye Nerves Shine

All the nerves of the eye, when stimulated, shime by their own light, and some of the luminous nerves can be seen by the individual himself ander certain comditions, according to a distinguished American scientist.

Why Electric Bell Rings

The bureau of standards says that when you press the button of an electric bell, the truttom closes a switch completing an electrical circuit betwees a battery and an electromagnet which or makes the Bell.

How Patent Office Works An inventor is unprotected until he has been granted a patent. The fling

of a patent application is merely a step in that direction. It is not necessarily the first person making application who is entitled to a patent, in case two or more persons seek pat-The weather bureau says that the ents for the same thing. Priority in filing gives one competitor certain adby the capid uprush of air in a violent vantages over others, but the patent thunderstorm which carries raindrops office undertakes in case of a controversy to grant the patent to the perthey fall back to a lower level, where son who establishes that he was first

Test of Society

Society-the only field where the sexes have met on terms of equality. the arena where character is formed and studied, the cradle and the realm of public opinion, the crucible of ideas. the world's university, at once a school and a theater, the spur and the crown of ambition, the tribunal which unmasks pretension and stamps real merit, the power that gives government leave to be, and outruns the lazy church in fixing the moral sense of the eye .- Wendell Phillips.

How to Make Waterproof

The bureau of standards says that knows of no way to make china wood oil miscisble with an alcoholic solution of shellac. A resin-chinawood-oil heat-treated varnish often has very satisfactory waterprooing properties. A solution of paradin in benzol is sometimes used to waterproof stone, but is unsatisfactory on wood. Aluminum sterate has very good waterproofing qualities and is ften used on fabrics.

How Snakes Inject Poison

The venomous snakes have a pair if fangs on the upper faw; these are hollow teeth connecting with the polson glands. In some species of snike these fangs are binged so as to lie back in the fold of the gum when not in use. These fangs or poison teeth blte the victim, injecting the polion at the same line.

Belts and Decorative

ScarEs in Limelight Belts continue to be of Interent pecially when they are in themely in [FLORISTS: worthy. The belt does not match, but on the contrary contributes something 104 Mains of color to the costume. An intown FURNACE tion in the matter of belts has been achieved by using a wide plaid infent GROOFRIDE ribbon bowed at the side on a matel sports frock of two-piece genre, the skirt in sectional plaits and the over blouse cut with a Y neckline. The status of the decorative stik (HARDWARDE) scart has been somewhat affected by the return to favor of the adminia for scarf for a smart sliken icarf JEWEDERE: not only because of greater comfort in warm weather, but because the miimal scarf is not appropriate with a LUMBER. sports costume. It belongs with the tailored sult for town wear with dresses of certain types.

Boyish Fashions Are

Copied by London Girl Giris will be boys again, it seems, this summer. At least young Radian rirls will if any forecast can be made from the women, ranging from royality down to scrubwomen of all ages, who have been attending the London fashion shows. . Even the ordinary depart. ment stores now have manuality

street costume, the skirt of which is Princing Helena Victoria, the mant made of gilt metal cloth, plasted. The of Ring George, has been one of the overbiouse is made of heavy black most regular attendants at displays crops with rover of emproidered metal made hy prominent houses. waid in gold and blue and rad. Gray Gray lannet will be worn again for for fur and black satin fat, tan paires sports and outlos: suits, and shirts

and genes which match the shows with long sleeves, very much like and here complete the outlit, which those worn by men, will be used by a second by Mary Philaire, meeting, and worned, it is indicated, instead of . · · , ·

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