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# The Automobile

BUY ACCESSORY AT RIGHT TIME.

minor mechanical repairs. This gen- also be carried.

made by way of too's and devices suggested include a wrench for ad- severe; as for the second, the young other of the asexual methods. dash, stop light, motometer, sun visor, justed ready for use, half-dozen valve then immediately reduced to his formto the more common ways and to other them poor transplanters.

The world," he said, "will rememlubricator, trunks, spring covers, special license holder, mirror to enable the rear, timescope, gasoline gauge, clock, radiator shield, hydrometer for lighters, foot warmers and elaborate light for limousine. It is easy, however, to load up the battery with too many devices which operate by electricity. When it comes to tools one. There must be many people who should aim to have plenty for ordi- have actually seen a toad get out of nary requirements. -

For instance, a good selection of one, which was ready grown undertools will include everything that is neath, proceed to swallow his old suit! However, such accessories should not All reptiles shed their skin, but not be allowed to take up a large amount until they have acquired the toad's of room. They should be capable of habit of swallowing the old one. The being packed in such a small place reason this change of clothing is not that they are not constantly getting in witnessed more often is that reptiles the way. The special tools furnished seek privacy for the operation, as by the manufacturer should always be whilst it is in process they are handicarried along and taken good care of, capped, and might be at the mercy of as nothing else is likley to meet quite an enemy. so well the needs that may arise.

CARRY SUPPLY OF LINKS. is going to be an hour after you leave new rig-out in a very short time, reout on the road in a storm is not un- breed and variety. common. In such an event you might Your pony, your dog, and your cat he faced with the necessity of putting also shed their clothes and grow a new on non-skid chains. This means in suit, and so do all wild animals. Both the first place that it is very desirable in fit and style nature makes an exto supply your car with such chains, cellent and efficient clothler. Insects Though these are in good condition in the larval stage also cast their when leaving the garage, after run- skins, and always there is a new one ning a while over rough roads at a underneath. Some shellfish do the fair speed, some of the links may wear same. through and begin to thrash against the mud guards. This is anoying and is apt to be damaging to the mud guards. This means, in the second place, that it is desirable to carry a supply of links and a chain tool so that the broken ends can be removed

and broken links can be replaced.

forth without a folding pail. Perhaps To give some idea of the size of they have had the distracting experi- these timbers the total board measureence of climbing up a very long hill ment of the 125 pieces approaches one to find the water in the radiator boiled million feet. They must also be withaway. While the cooling systems for out defect. automobile engines to-day are very A search of their limits for trees to efficient and while it is only in ex- produce these huge sticks will be ceptional cases that the water will made by prominent B. C. logging firms boil out of the radiator, yet when this and there is no doubt but that the occurs the results are liable to be dis- "goods" will be found, and delivered. astrous. While tire troubles are less | The incident illustrates the wonderand less in evidence they do occur once ful quality of British Columbia's timin a while. To jack up a wheel to ber stand. Only the Douglas fir area change a tire, on dirt and sandy roads of the Pacific Coast could fill an order especially, is something most difficult. for timbers of such strength, size and The jack sinks into the loose sand or soundness. dust instead of lifting the car. If you At the same time, only the costly have handy a block of wood an inch modern equipment installed by the thick and about six inches wide and loggers will enable the logs for this a foot long it will be a ready solution order to be yarded and transported to your problem.

TOW ROPE IS FRIEND IN NEED, It is not easy to keep the hands will permit their sawing and squaring clean while working about a ear, to the required dimension. Grease and grime get on the hands and oil is often hard to avoid. There A bishop was paying a visit to a cerof waste or rags. Then it is desirable children of the Sunday-school. remove the valve plunger, clean up tation," and accordingly began his talk the threads in the valve stem so that by asking the children the meaning of the plunger may be properly seated, the word "visitation." and trim the damaged threads on the "Please, sir," replied a young urchin, omiside of the stem so that the cap, "it's a plague sent by Providence." will screw down tight. The valve stem may become battered in changing a tire so as to prevent air being

forced into the tire. sory. You may need it yourself or it ed hand is switched on by bringing the may be used to help a fellow motorist thumb and forefinger together.

Practically all automobiles come in distress. A rope can also be use I mute testimony to his existence. This well equipped with such articles as instead of chains if there are no chains evidence was confirmed by his reguhead ights, tail lamps, windshields, and the car is stuck. In fact, rope larity in collecting his salary. But, top cover, side curtains, speedometer when wrapped about a tire is superior otherwise, he was never seen or heard and horn. Then there is usually a to cains in very sandy of muddy of at his office. tool outfit for use in keeping the car places. An extra set of electric-light He was transferred to another office, involved that of necessity the subject are held over till the following spring cut off from the parent plant the following spring cut off from th in good condition and for making bulbs and an extra electric fuse should and his hat, coat, and gloves changed of producing these shrubs is one de- and in some cases for a year or more. lowing year.

grease gun, screw driver, magneto- when driving in stormy, weather, office. adjusting wrench, an instruction book Shock absorbers are often found to belief, in view of the fact that Seneand some other things, varying with decrease the shock from rough roads. resolved that the young man must be by the sexual or cond the should be mulched and thorough cultivation is absolutely buried at Medum, where one of his

plungers for inner tubes, squirt can er status. full of oil, box of assorted nuts, box of assorted cotter pins, box of assorted cap screws, box of assorted washroll of friction tape. Once these mat- lining or brake band lining that is to ters are attended to the motorist can be cleaned can be readily done with free his mind from the details.

## Natures Change of Clothes.

his skin, and, arrayed in a brand-new

likely to be needed while on tour. This is not romance, but plain fact.

Every bird, too, changes its clothing at least once a year. The moulting of the old feathers is done without much You can never tell what the weather fuss, and nature gives every bird a your garage for a drive. To be caught, newing color and texture according to

#### The Land of Big Timber.

Recently an official representing the Dominion Government came to British Columbia with an order in his pocket for 125 pieces of squared timber of unique strength and record dimension, to fill an extraordinary en-Some motorists would not venture gineering specification.

from the woods, and only the up-to-theminute machinery of the manufacturer

Shocked the Bishop.

fore many owners carry a small bag tain parish and decided to address the to nave a three-in-one or similar tire- He had noticed many large bills valve tool with which it is possible to about referring to "the Bishop's visi-

Red-Light Gloves.

Luminous gloves are being worn by motor drivers in Paris. A red light A tow rope is another useful acces- showing on the back of the outstretch-

#### Funnier Than Fiction.

A certain young man became a member of the French Civil Service in 1922, and from that time a hat, a coat, and a pair of gloves at his desk bore

### Hack Saw Makes Rougher.

The roughening of an inner tube a tool made from an old hack saw blade cut down at one end to fit a file handle. This will be found handler more convenient and durable than an

HORIZONTAL

1-A great Island N. of Canada

12-Girl's name

13-A city in Venezuela

of; like"

foundland

25-Personal pronoun

26-A kitchen utensil

32-A woodland deity

38-An entrance way

42-Relative pronoun

50-A weight (abbr.)

56-Part of verb "to be"

58-Member of a City Council

61-A country of S. E. Asla

grain by beating

64-Exclamation of regret

70-To summon and gather

71-A province in east Canada

66-Possessive pronoun

67-A military title

69-Man's name

62-An implement for separating

46-Ago (poet.)

52-A stay-rope

55-Preposition

54-Middle (abbr.)

(abbr.)

60-To exist

40-Man's name (familiar)

41-Kind of ship Columbus sailed in

43-Fiber of a tropical American

48-Sorrow or suffering (poet.)

45-A laborer on a Mexican estate 39-Interjection

35-A wading bird

18-A tambourine

22-Achieved

28-Preposition

30-Close to, by

33-Merciless

7-A synagogue ruler whose daugh-

16-Suffix, meaning "of the nature

17-A cape on the coast of New-

19-An entrance or passage (min

20-One of the churches (abbr.)

24-Prefix meaning "from, out of"

ter was raised from the dead 3-Front

CROSS-WORD PUZZLE

## Method of Producing Horticultural Shrubs

By Prof. A. H. MacLennan, O.A.C. For the Can. Horticultural Council.

their quarters. But otherwise, there manding not only a knowledge of the Stratification is the term applied to The care of newly propagated stock of King Seneferu, first Sovereign of erally includes a tire pump, jack, tire- In the interest of safety, aw ind- was no change. Eventually, it was technique of propogating but a know- the freezing of seed to help crack the is a subject worthy of brief considera- the fourth dynasty (4000 B.C.). repair kit, a variety of wrenches to In the interest of safety, a wind-discovered that he was a professional ledge as well of the nature of the seed coat and this practice is followed tion. Ordinarily the seedlings or rootfit the various nuts and bolts, oil can, rain or snow is almost a necessity dancer, and was too busy to attend the plants themselves. This latter idea by many nurserymen. is borne out by the fact that certain | Seed is generally sown in light rows, sufficient room being given to belief, in view of the fact that Sene-

Other accessories which might be duction in grade. The first seemed too grafting, budding, cuttings or some a good bed for starting seed. which some motorists consider desir- justing ignition interrupter points, man was already in the lowest grade. It is not the purpose of this article grown from seed in this country, al- than three years as they will have a he made a comparison between this one set of ignition brushes, several Finally, the Gordian knot was cut— to outline in detail the propagation though the majority of them are im- tendency to spoil their form by crowd- and the discovery of the tomb of Tut-

> more common shrubs grown from seed check damping off: are the Barberries, Viburnums and cer- Probably the most common method pect some seedlings which would com- portance, but in Seneferu we have certain of the Hawthorns. With seeds of producing shrubs is by cuttings, bine the characters of the two parents, tainly one of the master builders of which are contained in a pulpy fruit Almost any plant can be propagated in In this way some superior individuals Egypt, who may possibly be bracketed

THE INTERNATIONAL SYNDICATE.

1-To shut out

2-To conform

7-A container

8-Like

termination

conveyance

11-Fixed In opinion

26-A step, a dance

34-Reduce in value

36-A receptacle

44-Farm product

tribes

47-Possessive pronoun

53-To utter heedlessly

58-A high mountain

60-To tell tales

62-At a distance

63-Liquid (abbr.)

67-A degree (abbr.)

61-Purpose

59-Prefix meaning "through"

65-A cavity or receptacle

68-Name unknown (abbr.)

49-Cover of a receptacle

45-Seed-case

55-To vex

57-A lump

23-Girl's name (familiar)

25-Standing at the beginning

31-A city of Ontario, Canada

32-A city in Punjab province, Ind'a

37-A vessel for holding liquids

51-A large group of South African

14-Uncooked

15-To peruse

27—Despotism

28-Liberty

29-A color

21-A small bed

5-Man's name (familiar)

VERTICAL

4-Suffix used as an adjective

9-An excursion by any means of

10-A city of east-central New

such a wide and varied list of plants is are sown as scon as ripe while others the soil will form roots and can be

to the more common ways and to cite favorable. Evergreen seedlings re- Nothing has yet been said regarding ber the excitement caused by that disexamples of shrubs on which these quire shading during their early life the producing of new varieties of covery, and the joy of finding gilded and are very liable to damp off if the shrubs. Ordinarily these are the re- chairs and couches inlaid with blue-In the case of sexual propagation soil has not been disinfected. Sowing sult of crossing two varieties within glazed porcelain. But these things the field is limited to plants which are the seed thinly in sandy soil and grow- the species and of growing the seed blinded people to the fact that we have self-fertile and consequently will come ing the seedlings with a minimum of which is produced. If proper precau- not recovered one historical fact from true to type from seed. Some of the water will help to quite an extent to tions have been taken to insure a suc- that tomb.

abrasive substance such as sand or it is necessary to allow the fruit to this way although in some cases bet may be produced which may then be with Usertzen III. and Thothmes III. ferment in order that the seed may ter methods have been devised. There propagated asexually. are various types of cuttings, the most | Occasionally new varieties may or- "It is a piece of very good fortune

> cuttings which are taken through a horticultural shrubs. bud and those which have their first bud farther up the stem, although many growers favor the former meth-

Success in rooting cuttings depends from this callus that roots arise. Calnot so likely to become active too in the fall as soon as they have callused or they may be stored in a cellar over winter in boxes of moist sawdust or sand and set out in the spring. Many of the common shrubs such as Deptzia, Wiegelia, Forsythia, Hydranby this method.

Hardwood cuttings are sometimes used in propagating evergreens, more particularly those types which cannot be grown true to type from seed. Since evergreens are usually slow in rooting the heel and mallet types of cutting are often used. These consist of a small portion of the main stem along with the cutting, the idea being to pro-, vide an extra supply of stored food on which the cutting may draw while it is forming its callus. Ordinarily evergreen cuttings are set out in the fall and given winter protection. Cold

frames ore often used for this purpose. Soft wood cuttings may be taken in are usually set in a propagating bed of sand and are kept sheltered from the sun and wind until rected. This method is usually practised in the greenhouse or in frames. Cuttings should be planted out as soon as they have

rooted. pagating some roses and some of the been partially digested by the bee. evergreens. With most shrubs, however, results can be obtained more quickly by using cuttings. Budding, which is really a form of grafting, is used on roses hawthorns, lilacs and the various types of flowering plum. This method can be used on almost any type of shrub and is particularly useful in the case of rare stock as it is economical of material.

Another method which is sometimes used is mound layering. This consists of cutting back the bush severely to force the development of numerous young shoots. At the same time soil is heaped up in the centre of the bush.

Under the term horticultural shrubs, be readily separated out. Some seeds The new growth coming up through

ed cuttings are set out in nursery hand, is not prepared to indulge this Bumpers fore and aft are increasing punished. But the only two possible others which will not come true to with straw or leaves to give protection necessary in the nursery if the young pyramids stands. punishments were dismiscal and re- type from seed must be propagated by during the winter. Cold frames make shrubs are to make good growth. Dr. Budge expressed the opinion Shrubs should never be left in the that the shaft made it "quite likely" Some of the evergreen shrubs are same place in the nursery for more the tomb is that of the King. Also, extra spark plugs, cleaned and ad- the young man was promoted, and methods for all types of horticultural ported from European countries where ing and to develop long tap roots ankhamen.

ceseful cross, the grower should ex- "Tutankhamen was a king of no im-

popular of which are the hard and soft iginate from bud sports. For no ap- that the discovery was made by care-Hard wood cuttings are usually bush bearing green leaves may show given it is quite clear that this is not taken in the fall from well ripened a red or purple color. Usually these the tomb of an ordinary individual, wood of the previous season's growth. sports can be propagated asexually and, with a shaft 150 feet deep and The wood should be cut into pieces and will come true to the type. There which is filled with concrete and cefrom 5 to 8 inches in length, usually is some evidence to show that varia- ment instead of ordinary rubble, it is with three or four buds on each. There tions can be produced by grafting on evident the person buried is some one seems to be no great difference as far different stocks, but this is not follow. of supreme importance. as ability to root is concerned between ed to any extent in the productioon of Among the contents of the tomb

#### Animal Centenarians.

ed by the various species of animals builder of the great pyramid of Giza. on the production of callus over the varies considerably. Among mammals lower end of the stick. Callus is a the large animals usually live longer spongy material laid down by the ac. than the small ones, but this law is tivity of certain plant cells in an ef. not valid among birds, the parrot, for fort to close over the cut and it is example, reaching the same age as the eagle.

lusing can be hastened by burying the Spiders live one to two years; beetcuttings upside down in moist sand so les have been kept prisoners for five that the root end will be exposed to a years. The queen bee often lives for warmer temperature than the rest of five years, while the working bees usbeen kept in captivity for fifteen years. soon. These cuttings may be planted while the toad has been known to attain forty years. A turtle was kept in captivity for 150 years, and the

The age of birds is known best. The household cock lives fifteen to twenty towns and villages of Canada, in that gea and Spirea are usually propagated | years; the goose and the elder-duck, he is keen to see his locality prosper-100 years; the swan, 102 years; the stork, seventy; the falcon, 162; the golden eagle, 104; the blackbird, eighteen; the canary as much as twentyfour, and the parrot about 100 years. Of the mammals, the horse attains for capital to become interested. Selfforty to sixty years; the sheep, twenty; the dog, twenty-eight; the cat, twenty-two; and the elephant and the whale 200 years.

## The Potato on Trial.

It took people a hundred years to discover that potatoes were good to

In 1728 an attempt was made to in early summer from new wood. They they were denounced from the pulpit troduce potatoes into Scotland, but this Mr. Stewart was but saying what on two contradictory counts-that they were the forbidden fruit, the cause of Adam's fall. They were accused of causing leprosy and fever.

Not Honey in the Flower.

Honey, as such, is not present in the Grafting is used as a means of pro- flower, but is a substance that has



#### Discovery of Giza Tomb of More Importance Than Tutankhamen.

News of the discovery of the tomb at Giza was received by Egyptologists in London as of the highest importance. The unrenal depth of the shaft is regarded by Sir Wallis Budge, former Keeper of Egyptian Antiquities at the British Museum, as reason for be-

parent reason a certain twig on a ful excavators. From the particulars

identified is a great marble sarcophagus with gold-decorated columns. Near by, upon what seems to be a plate, rests the seal of King Seneferu, The greatest age that can be attain- who preceded King Cheops (Khufu),

### Natural Resources Bulletin.

The Natural Resources Intelligence Service of the Department of the Interior at Ottawa says:

The influence of the newspaper on the development of natural resources is probably not as generally apprecithe cutting. In this way the buds are ually live only six weeks. Ants have Newspapers do a vast amount of publicity work for their individual localities, and the spread of this information has been, in many cases, the cause of interest being created in an unspecimen in question may have been developed resource. The home paper editor should likewise be credited with a large amount of the local interest in ous and progressive. Without a local pride this advancement is not possible. In many of our smaller municipalities there are conditions that, were they known, would be an inducement advertising is not a fault when applied to the improvement of home conditions, particularly the development of local natural resources. At the recent annual meeting of the Dominion Land Surveyors Association, Hon. Charles Stewart, Minister of the Interior, said that he "had the greatest admiration for the men who were attracting attention to the development of Canada's natural resources." In all public men are thinking-all mer who are thus interested are doing a work for Canada's advancement that entitles them to the greatest credit.

## Fascinating Hudson Bay.

Getting away from the normal is the ambition of many when the summer vacation urge comes. This is a very unsettling problem in the lives of many winter shut-ins at present, and the eyes just naturally turn to the map in search of new areas where. civilization, with its concomitants of trade and industry, has not despoiled the works of nature. This year, particularly, there is a general looking to the Hudson Bay and its surrounding territory for new experiences.

The old spirit of exploration that carried the early discoverers of Canada into unknown parts still lives in the blood of the present generation, and the fascination of breaking new trails will not be subdued. There are few portions of Canada remaining in which nature has not been disturbed. and one of these is the Hudson Bay area. Many canoe parties will be found on the great rivers entering the bay this year, many new experiences will be recorded, and it is safe to say that ere the touring season of 1925 is past much additional information will be available covering this great inland sea and its surrounding terri-

## Food for Thought.

A young woman was rambling along a country lane. She was dressed smartly and was full of thoughts for reforming the world. Presently there came along a small, bare-legged urchin carrying a bird's nest with eggs in it, and she did not besitate to stop him. "You are a wicked boy." she said, severely. "How could you do such a deed, and rob that nest? No doubt the poor mother is now grieving for the loss of her eggs." "Oh, she don't care," replied the urchin edging away, "'cause she's up in your bat." Then the young woman walked away, thinking deeply, but a different

## MUTT SHOULDN'T CONFUSE JEFF WITH SUCH FANCY WORDS—By Bud Fisher.

