The Automobile

LUBRICATION

bile motor or stationary gasoline en- calls for "oil." gine to overheat, but lubrication is often not considered in its true im-

adjusted.

motometer for the first 300 miles of ant point in the design of some endriving the engine, and saw no signs gines that it is possible to climb steep whatever of overheating. To give the hills in high gear with the cylinders power plant every chance, I had the hitting on only five or seven, dependcrank-case drained of the old oil, ing upon whether the engine is a six washed it out with two quarts of new or an eight. This may be due to oil, and refilled it with six quarts of faulty spark plugs or, which is more new oil. Ordinarily, I do this only likely, to a valve not seating properevery 500 miles.

was at a loss to understand it. The the engine. The other five or seven carburetor adjustment had not been cylinders carry the burden, and do changed; I was driving with the spark it exceptionally well. car any harder service. Unquestion- weary? When you run on the reserve that time. ably, the new oil was the cause of the you skate on thin ice.

But I had been careful to have the was furnished with the car originally, a pair of pliers to tighten the screw and had specified "medium" grade as that holds the ignition wire terminal And his eye was clear and bright; was recommended by the manufactur- to the spark plug when he inserts a He ate and drank with a kingly zest ers. Where then was the trouble? new one is no reason why you should And peacefully snored at night.

We put a few drops of oil from my each one of the screws a few extra But he said he was sick, and a king car on a sheet of white paper and on turns. If a screw is turned down too the same sheet also placed a few far it will spread the terminal and drops of other grades of the same actually loosen it. oil. The comparison showed, by color and texture, that an inexperienced at-

shows, too, that you can not always bed with a dry rag.

ENGINE TEMPERATURE AND | depend on the filling station attendant to furnish you the right oil, even when Many things will cause an automo- specified, much less when one simply

RUNNING ON RESERVE.

Some cars are equipped with a re-In breaking in a new touring car serve gas tank, but all cagines carry recently I took unusual care to break a reserve power supply. It is for this in the motor without harming it. I reason that a large percentage of watched everything carefully-cooling motorists keep going day in and day system, oil level in the crank-case, and out without realizing that they are the set of the spark. Since the car running on the engine's reserve power was new, the carburetor was perfectly, and that suddenly the engine is going to give out altogether.

I kept a constant watch on the Reserve power is such an importly. Compression in the particular cyl-

As soon as this change of oil was inder approximates nil, and contrimade the engine began to overheat. I butes hardly anything to the work of

MORE HARM THAN GOOD.

crankcase refilled with as good oil as Just because the garageman uses The King was sick. His cheek was I drove my car to the filling station. try to go him one better by giving

NEXT BEST THING.

tendant had filled the crankcase of Fresh rust on the bumpers can be my car with "heavy" oil instead of removed without the aid of nickel the "medium" for which I called. polish if the latter isn't handy when He had passed his life in studious toil, This experience shows that merely the car has been brought in at night. a good grade or kird of oil for en- Dampen the end of a rag and rub the gine lubrication is not sufficient. You parts affected. Then dry. Sometimes The other had never looked in a book, must have both a good oil and the a little moisture on the bumper, if the correct grade of oil, that is, "med- car is brought from the cold into a If they recovered, they paid him well; fum," "heavy," or "light" as the heated garage, will answer the purmanufacturer may recommend. It pose of a temporary cleanser if rub-

Together they looked at the royal tongue, As the King on his couch reclined; In succession they thumped his chest august,

The old sage said, "You're as sound as a nut." "Hang him up!" roared the king, in

The other leech grew a shade pale. But he pensively rubbed his sagacious

And thus his prescription ran: "The King will be well if he sleeps one

Wide o'er the realm the couriers rode, And fast their horses ran; And many they saw, and to many they

But they found no happy man.

At last they came to a village gap; A beggar lay whistling there; tected risks these in the smaller mun-He whistled and sang, and laughed, and rolled

And one of them said, "Heaven save

"An idle man has so much to do

"This is our man," the courier said: "Our luck has led us aright. will give you a hundred ducats,

But I haven't a shirt to my back."

Woman's Part in Nation Building Broadcast by the Alberta Division of tion towards human progress and will the Canadian Red Cross Society, most profoundly influence the whole Speaker: Mrs. C. B. Waagen, Vice- life of the race. President and Honorary Secretary. T Thorough Understanding of the

of an address which was breadcast practical foundation on which to build "name-father" to paper, and a very remake it very good reading.

of his brow makes provision for the of harmony. of creating.

the child, so it is the cradle of the use she makes of it in directing her Scriptures. nation's life. And to guard, and to give own life and the lives of her children. This papyrus grew ab indantly in direction and strength and character She must be equipped and prepared lakes and marshes, to a height of to that life still remains the highest, in case of sickness. This knowledge of about ten feet; the diameter of its noblest, most difficult and most splen- health and of the physical needs of stem was two or three inches, and did task to which woman is called to herself and those about her is the foun- from its surface peel could be taken direct her powers.

"It is neither as the household of life must be built. drudge nor as the seeker after new The Natural Resources Intelligence experiences amidst a round of social The cooler weather will soon be here, when heat will be required in the winter, and at times of severe their utmost to keep the home com-In many of the homes, especially those that have been built for some time, or those of a more or less temporary nature, the chimneys are a great source of fire danger. These in many cases are built upon brackets. With the contraction and expansion of

Means of Health.

from the Calgary Herald's station, Cal- the structure of an adequate and use- spectable and worthy elder too. gary, under the title Woman's Part in full life. If advancement of science Bark had been used for tablets, and Nation-Building. Its clearness and has robbed woman of many of her old for writing letters which were capable decisiveness of thought give it an occupations, it has offered many new of being folded up, during the best authoritative ring and these qualities opportunities in their place. No in- period of the Roman world, and such telligent woman to-day should be with- were still in use under the later em-"No development of civilization, no out a thorough understanding of what perors. The tablets were of bark on progress in evolution has as yet gool health means for herself and which the Emperor Commodus inchanged the position of either man or those about her. She should be equip-scribed his little list of victims, the woman in their fundamental relation- ped with a knowledge of physical laws, discovery of which led to his own vicship to life. Woman is still the mother a knowledge of her own body, of the timization. of the race, the first guardian and laws of hygiene, of sanitation, of food teacher of the child. Man is the values, of that background and atmosfather, he is still the father and the phere which in any home makes touniversal provider who by the sweat wards the maintenance of health and the use of tree-bark being the use of

or, and of which side by side with wo- knowledge of maternal and child wel- then very common and now very rare man he has shared the responsibility fare, since science has brought this in Lower Egypt. From its name, Byb-"And as the home is the cradle of will ultimately be responsible for the book, and thus our own word for the dation on which the higher structure off, layer after layer, to the number

Mental Health.

Service of the Dept. of the Interior excitement and amusements, nor yet "Scientists and doctors to-day tell as the competitor with man that wo- us that many of the ills, especially man can find her true and real happi- those mental and moral weaknesses the homes. The kitchen stove and the ness or that she can make her highest which make their appearance late in only; but books were copied into long heater will be moved into place for and best contribution to the building life, are due to unfavorable circumof the nation. She must realize with stances and training in the early en- sheet which felt the first glue being weather these stoves will be forced to undismayed vision the great responsi- vironment of the child. With this add- called on that account the protocol, a bilities of her task, the tremendous ed knowledge that is placed in our term still preserved by diplomatists. powers that are hers. The economic hands to-day there comes to women a The run on papyrus being very conditions of our time and the develop- new and even greater responsibility. great, that plant began to show signs ment of machinery and appliances, A study of child psychology, that is a of scarcity in Egypt, and for that reahave affected a vast change in living knowledge of the mental development conditions. The home arts and crafts and needs of our children, based upon are no longer with us. The household the best instruction and knowledge of maidens to be directed and con- which can be obtained on this subject trolled has vanished. But if the old from those men and women who have At the same time, the Kings of Perhas gone, the new is pressing upon us devoted themselves to the study of gamus became a literary sect, and

The Romantic History of Writing Materials

CANADA'S LIVESTOCK

INDUSTRY

After the various vicissitudes ex

perienced of recent years, and the being

buffeted between the United State

and British markets according to the

vagaries or tariffs and embargoe

Canadian livestock producers would

seem to have reached a realization

that it is a poor policy to remain di

pendent upon a single source for the

disposal of their produce, and are see

ing a remedy for periodically recu

ring ills in a wider expansion of ma

kets. In the movement to go farth

afield in the vending of their product

which is markedly evident at the pr

sent time, may be foreshadows

brighter and more staple times i

In the first six months of 1924 Ca

ada exported 32.179 cattle to Great El

tain and 40,953 to the United State

as compared with 30,029 head to Gre

Britain and 23,659 head to the Unit

States in the same period of 1923. T

18,991 in favor of the present year.

increase of 35 per cent. The numb

of livestock marketed in England at

Wales during the first 26 weeks of a

year amounted to 89,148 fat cattle a

95,934 stores as compared with 14

867 fat cattle and 234,804 offered in

ing the corresponding period of is

Beef, Bacon, Pork and Mutton.

In addition to these live expor

there were exported 10,388,500 pour

of beef, of which 2,314,000 pour

went to Great Britain and 6,301,

went to the United States; 51,5103

pounds of bacon, of which 50,929.4

pounds went to Great Britain and 21

800 to the United States: 4.682

pounds of pork, of which 2,935.4

pounds went to Great Britain and 68

600 pounds to the United States; a

79,200 pounds of mutton, of which 3

300 pounds went to the United Stay

Some progress has been made in

co-operative marketing of livesto

and the year ending in June of

operation of the co-operative cal

pool of the United Grain Growers, L.

was a successful one from the sta

point of the producer. For the two

months the profits of the cattle i

amounted to \$20,870, which made t

sible a distirbution of one per cent;

the value of their cattle to be paid

shippers in addition to the full mat

value which they had already receiv

Since the pool was inaugurated

February, 1923, it has sold more t

100,000 head of cattle with a value

Prairie Provinces Developing Ne

Western Canada, particularly

Province of Alberta, has become t

interested in endeavoring to devi

new markets for its livestock, an

this connection shipmeots have t

made to Japan, Belgium, and to t

fornia. The Grande Prairie and P.

River Country have been furnishing

large number of winter-fed cattle

the Old Country markets, and

ments of carefully selected cattle

moved from Central and Northern

The Alberta Government's sx

livestock dealers came from all

the country to view the stock.

were well pleased with the cattle

particularly satisfied with the

They are anxious to have another

ment made as soon as possible, a

voluminous and profitable trad

It ain't the "catcher" or the "pit

That makes them win the day

it's being brought up on, do you

I saw above a sea of hills

A solitary planet shine,

And there was no one, near or a

To keep the world from ber

Instruction courses in moder

ods of grading and packing ap

to be given to fruit growers at

to-date applepacking station all

be opened by the ministry of

ture at Cottenham, Cambrid

Protection of Sea Front

In England wood blocks so

ment with the end grain

have proved successful in resis

Finding action of wate-driven

England

Autumn Dusk.

Apple-Packing School.

it will live to grow up?

Nor the individual play

But close co-operation

Co-operation.

Markets.

\$3,200,000.

Canadian livestock producers.

The introduction of papyrus by the Egyptiens gave a great uplilft to letter-writers and to literature generally. The remarks which follow are part "Health—good health, is the most It is, as the Germans would say, the

Origin of "Book."

peelings from a reed instead. This home of which he is also the protect- "She must equip herself with a reed was called Byblos or papyrus, knowledge to her very doors, and she los, comes the Greek word meaning

of some twenty coatings. The use of this peel occurred to the Egyptians as an improvement upon ordinary bark and the new writing material soon be-

It could be written upon one side

son, among others, its exportation was at one time forbidden.

Paper From Rags.

wanted something whereon their scribes could write their books. So the skins of the beasts, occasionally used in some places already, began to attract increased attention, they were prepared into dry substances, and called, after Pergamus, "pergament" or parchment, and vellum, meaning skin. This parchment was dear, however, and for common purposes papyrus was so much more convenient that the Egyptian paper never really was supplanted, until the birth of a system which got paper out of cotton, about seven or eight sundred years after the discovery of parchment.

The world then worked on for a thousand years, before we hit on the plan of making the modern paper out of linen rags; a very lucky thing, for up to that time the monks, who could not go to the expense of much new parchment, had industriously been scraping out the copied records of antiquity and works of its great masters to make room for their own writings.

Dependent Children.

Home-finding as a method of providing for neglected and dependent children is now fully recognized as being in the best interests of both the child and the community. The child is placed under normal conditions with the opportunity of forming life-long attachments, while for the community there and it is towards that new world and the minds of children, should be a is the gain in social adjustment and An increased insurance rate can the large part she must play therein part of the equipment of every woman economy. No child philanthropy can only result if such fire losses are not that woman is facing. And it is a who is to guide and develop the minds be considered progressive and officient losses is the country is that many of the old. And as the woman of old took "Let us rid ourselves at once of the homeless child a safe place in some the buildings are insufficiently insur- stock of her household so we 23 wo. idea that there is any easy path to the family circle. Taking this for granted ed and the loss falls heavily upon the men today, each and every one of us, profession of parenthood if it is to it follows naturally that there must be owners, many of whom are working must take stock of ourselves to see be carried on intelligently and suc- a complete and comprehensive plan of supervision.

On this point Mr. J. J. Helso very truly says: "Too much importance cannot be attached to this branch of child-protection work. If it is carelessly done and correspondence relied upon for information instead of a personal visit, the home-finding movement will be brought into disrepute and the happiness of many a child completely wrecked. Visiting should be done, but in such a tactful way as to ensure the protection of the child and at the same time retain the good will of the foster parent."

When it is clearly established that the child has become deeply rooted in the affections of the foste parents, provision is made for legal adoption and once that is accomplished all supervision ceases and the child becomes an integral part of the family. This excellent law should be more nature has whispered to the hearts of generally known to those who have opened their homes to a friendless child, for it gives them a protection

He Sold Wells. "He's in the oil business, you say? Retail, I suppose?"

The Ocean's Bed. The ocean bottom is thought to be made of abnormally dense rock.



premiums received, while on unpro-The camera doesn't lie. So this Toronto lady had her photograph taken icipalities where no fire protection is with the sixteen-pound lunge she landed unassisted in the Trent River this available, the losses amounted to 81 season, the biggest catch made by any woman. per cent. of the premiums collected.

reduced. The unfortunate part of fire more difficult, more complex life than of the young. "That he never has time to be sad." hard to establish themselves in com- what is demanded of us and what we cessfully. fort. A little care will in most cases require physically, mentally, morally prevent the start of fires. Regrets and spiritually to equip vs to meet this "If woman's sphere is in her home never yet replaced a burned home, new order, remembering always that her education and mental outlook must while care may save a life-long regret. we must first recognize in ourselves be large enough to travel across the that natural law, that destiny and pur- threshold out into the great world be-There has been no rain in Central pose for which nature has created us youd, and to learn life's struggles and as women: That whether or no we problems if she is to prove a helpmate realize that destiny in our own lives, to the man with whom she shares the Life is like an investment-it falls ing of new life, or whether as independ- and if he is to be a guide and inspira-"The fruition of the greatest art ent human beings we go out into the tion in the lives of her children. will never civilize the world. . . . struggle and warfare of life-we "She must have courage to face When we learn to be kind to animals should carry with us the recognition life's problems squarely, to think in we will be kind to our neighbors. The that as the builder, as the uplifter, as terms of truth even when this hurts: changing human nature, a slow pro- broader sense of the term, in a some- and understanding if she is to meet

The Wider Vision.

in the making of homes, in the creat- responsibilities of life and parenthood

Master-Builder whom the stars obey. They were recognized in she is to meet A good name, like the inferior for- don curio shop, and became one of Schoolteacher—"Don't say that; say cess, but it can be done."—Minnie times too dark and unlovely world, with open hands the best and worst." that she may acquire a knowledge of proportion and balance; and above all the can never afford to lose the gospel of tenderness nd affection which all women if they will only take the time to listen and have the courage not always possible in past year

"To-day it is surely the first duty of women themselves, to see that in this task of nation building the utmost opportunity is given to women of all classes, of all creeds, and of all conditions to secure for the development of their bodies and minds those surroundings, that knowledge and that special training which will enable them to make the best possible contribution through their own lives and through the lives of their children to the life of the nation as a whole and to the uplifting of the human race."

False Alarm. "Adam! Quick! The baby just swallowed a safety pin!" And Adam laughed and laughed, for he knew safety pins hadn't been vented yet.



"No-hole-sale."

These two wistful youngsters are the children of Earl Haig, one of the

greatest field marshals that England ever had and leader of the nation's troops during the World War. They are Lady Irene Haig and Lord Dawyck. The weary couriers paused and looked

Building.

in place finds its position on the basis British Empire Exhibition are copies "Eh, yes, fair sirs," the rascal laughed of all that was done up to that mo- of the sacred gates of the Teheran ment. There must be a solid underpin- mosque and have a most romantic and ning that the superstructure may be tragic history. They were made by a substantial. It is impossible to derive poor Persian wood carver who defied a rock-bottom stability from a quick- the decrees that they were not to be sand foundation.

the performance of each man in his detail to memory, and then went home place through the generations. Age and wrought it in the wood. But his builds on age; and as we come on the visits caused suspicion to fall upon scene we inherit the fruit of the toil him, he was watched, his secret disand travail of civilized mankind before covered, and, on the completion of his "I would do it, fair sir" (and he roared us. In our turn we are bound to leave task, he was found murdered, and his "on going hence some immemorial work disappeared. Presently the thing." All we can do is to live our gates came into the hands of Persian lives as well as we know how to live dealers, who sold them at a sacrifice them and leave the issue with the rather than keep them, and at length Master-Builder whom the stars obey, they were recognized in a small Lon- on tight!"

tune that is money, is a matter of ac- Wembley's multitude of attractions. "Hold on tightly!" cretion. The good neighbor and useful citizen is known to-day by what he has been consistently for many years. In rare instances, which headlines seldom fail to emphasize, the pillar of church and state topples suddenly to ruin; and there is grief, with general amazement. When we see such a collapse, we must remember the infinitely small proportion measured with the number of those who continue to justify the affectionate general confidence.

That public esteem is worth a man's ceaseless effort to acquire; and it is better to upbuild such a reputation than to rear the most palatial of the houses made with hands.

Poor Fellow.

A teacher, trying to impress on her pupils the rightness of kindness to all animals, took them for a walk to bring the lesson home to them.

Hearing a scream from little Johnny she asked: "What's the matter, John-

"I've been sitting on a hornet," was the tearful response, "and I'm afraid I've hurt the poor thing."

Gates Have History.

A pair of wooden gates which stood When a house is reared, each brick in front of the Palace of Beauty at the copied. Each day he made a pilgrim-The structure of society depends on age to the mosque, committed some

Natural Resources Bulletin.

Coincident with the presence of the Prince of Wales in the U.S., is the fact that King Edward VII., when the Prince of Wales, arrived in New York set as before; I was not giving the But suppose a second cylinder grows as Lord Renfrew on September 20, 1860. He is shown as photographed at

at Ottawa says:

woodwork, due to changing atmos-

pheric conditions or wind pressure,

the mortar in the chimneys works

loose and falls out, allowing sparks to

find their way between the bricks into

attics and on to shingle roofs, where

they are not discovered until too late

to save the home. It is well to go

carefully over chimneys to look for

and repair any places that may be

Another great source of fire danger,

is where stovepipes pass through

walls and partitions. Those should al-

ways be protected with wall thimbles

surrounded by an air space, and not

approaching wall or ceiling closer

than ten inches. Overheated pipes are

a very prolific cause of fire. Care

should be exercised that stovepipes

are in good condition, and well sup-

Other causes of fire due to heating

equipment are starting fires with coal

oil or gasoline, placing kindling in

the oven or too near the stove, over-

filling fire pots, drying clothes over

stoves or pipes, and the careless

Last year insurance losses paid on

farm fires amounted to over twenty-

five per cent. more than the total

ported.

handling of ashes.

surance companies.

Australia for three years.

The Enchanted Shirt.

And doctors came by the score,

They did not cure him. He cut off their heads, And sent to the schools for more.

At last two famous doctors came,

And one was as poor as a rat: And never found time to grow fat. His patients gave him no trouble;

If they died, his heirs paid double.

But no trace of disease could find.

a gale-In a ten-knot gale of royal rage:

nose.

"In the shirt of a happy man."

spake,

On the grass in the soft June air. This also constitutes a loss to the in-

you, friend! "You seem to be happy to-day."

"For the lean of your shirt to-night."

The merry wight lay back on the grass, And laughed till his face was black; flat when there is lack of interest.

In Time of Stress. Rescuer-"Hold on tight, miss! Hold day of wars will pass. It does mean the interpreter of motherhood in the she must equip herself with sympathy

Citadei, the Chateau Frontenac and Quebec Seminary.

ence River at Quebec. In the background may be seen the