PNDON

News From the Realm of the Motor Wise

ACTS OF INTEREST FROM MOTOR WORLD

Hundreds of Thousands Being Spent for Roads Across the Border.

LITTLE CONVENIENCES

On the First Engines Charges Were Exploded by Hot Tube-Electric Spark Perfects This Feature.

At the present time Tennessee building more permanent roads than any other state in the union. The one great project, the Memphis-Bristol road, which is now under course of construction, when completed will be the longest continuous macadamized road in the country, covering 6/5 miles. Already \$510,000 has been spent on it, and it will take at least r lother year for its completion. The I ighway will pass through 23 counties and 82 towns. Knoxville and Nashville are among the towns through which the

An entirely unnecessary use of the brakes is one of the chief causes of excessive tire wear. With the exception of those occasions when it is im perative to check the car as quickly as possible, the use of the brake should be dispensed with. Braking is greatly overdone by most drivers, and the habitual use of powerful foot and hand brakes cannot but prove injurious to the tires, owing to the sliding of the wheels which ensues before the momentum of the car is overcome.

On the first engines which could be styled internal combustion motors the ignition of the charge, whether powder or some sort of gasoline mixture e builders met with many obstacles n their efforts to get a quickly-burnng mixture. Until the time the hot be was tried the ignition of the harge was far from reliable, and many discontinued their experiments with internal combustion motors, be ing unable to devise means of explod-

A large field for the motor truck i open in the coal delivery business, and demonstrations are daily making coalverts to the truck way of skeptics. The truck makers in many cases have conducted tests, perhaps as much their own information as in the hope of selling their machines to the pares in whose delivery systems they ave installed a truck for a test period. Occasionally the little piece of rubke and tears when changing tires

SPEAKS OUT HIS

THAT THERE IS NO BETTER MED-PILLS.

w kiskeard Man Tells the Public What He Thinks of the Remedy That Never Fails to Cure Diseased

NEW LISKEARD, Ont., March 29 .pecial)-Mr. Isaac Grant, wellown and highly-respected here, is firm believer in the old and stillowing belief that Dodd's Kidney ls are the one sure cure for all orms of Kidney Disease.

Mr. Grant is butspoken in his be fief. "Any person suffering with kidney disease," he says, "should use dd's Kidney Pills, as there is no tter medicine on earth today." When a man makes a statement like bat he believes what he says. Hunne same statement every day, and or the same reason. They have used other ailment at which they are aim-

Dodd's Kidney Pills cure the kidshake off any and all disease.

correct count we will

ike proportions.

A small amount of soft solder dropped operate motors and sometimes it affects the plunger. into the cap makes an excellent sub stitute the metal being sufficiently soft to bed itself against the end of valve and make a perfectly airight joint. It will not adhere to the her metal.

ators should be periodically blow hrough to be sure they are clear, and there is a cotton filter for the gas this should be changed occasionally if it seems to require it. Especially hould it be seen that the different parts of the generator go together eely and that they can be fastened a accordance with the maker's in

Even a little thing like a hot mufler discharge pipe sometimes may eause surprising loss of power. What is generally does, however, is to cause the exhaust gases to seek other outets-usually through the blowing out of gaskets in the connecting pipe line, or the unseating of the muffler cutout, if that device be of the poppet

vpe and opening outward. The latest invention for covering utomobile footboards is a matting made in picturesque designs from aluminum. One cannot slip on it, and ts metallic composition makes it easy o clean. It is also almost indestruct-

In ten months American makers have shipped to other countries 12,196 utomobiles worth almost \$13,000,000,

A great majority of manufacturers re using metal to metal brakes; some them have adopted cast aluminum ned with cast-iron working against

The use of powdered soapstone in he mold when casting babbitt will reatly improve the flow of metal; it nsures a full mold and a clean-cut

The front wheels should not be adusted so loosely that they are allowd to wabble. Neither should nuts be crewed up so tightly that there is an excess amount of friction caused by the pressure created. When the wheels begin to give signs of play it s time that the required adjustment

WATER STREETS WITH MOTOR APPARATUS

First Apparatus of Kind in America in Use at Penascola, Florida.

An innovation in motor vehicles turne out recently is a sprinkler car for Pensa-300 gallons and the car is calculated to o the work of several horse-drawn prinkling carts.

The car was shipped to Florida last fuel to start. onth and is now doing service on the does not puddle the roads the way rdinary slow-moving sprinkler carts do. wets the ground evenly and yet orses are doing it once. Motor sprinkler systems are new i

his country, but have been used exensively for years in Germany, France and other European countries.

TESTING STEEL

Unique Devices Put All Manner of Strains on Metals.

The physical laboratory is probably the most interesting to the layman. Here stands a great battery of powerful machines, especially designed for testing steels against the strains of twisting, pulling, rubbing and vibration. Silently and without apparent effort one of these machines will take reds of others in Canada are making a bar of steel and pull it apart in the dd's Pills and found them good. For way that multiplies many times the Dodd's Kidney Pills not only cure the strains of use on the hardest road. The backache or rheumatism or dropsy, or limit of flexibility is determined by aned, but they build up the system and automatically the amount of misuse make you feel stronger and healthier the steel will stand up to the breaking point. It is a commonly known fact among steel makers that, when neys, and cured kidneys mean pure Studebaker gets through testing a blood. Pure blood cures the ailment piece of metal, its engineers know by making the body strong enough to more about it than the man who made it.

son who sends in the

BY KEROSENE GAS

Pipes and passages of acetylene gen- Device Invented to Make Use of a Less Expensive Fuel.

START ON GASOLINE

After Running for Few Minutes, Switch Over to Other Tank, Perhaps Automatically.

By heating vaporized kerosene, utilizing the heat produced by the exhaust comparatively inexpensive liquid as substitute for gasoline. The problem is one that has puzzled the best engineer ing talent in this country and Europ ever since the introduction of the in ternal combustion motor, which steadily gaining ground against the heavier steam power plant, even in large

il engines have been developed in th last few years, but until now it has not been found practicable to use kerosene in the ordinary gasoline engine of standith Canada accounting for about a ard type. The device is under the con trol of a company with a plant in Long Island City

The Method Employed. rom 11 to 26 inches and in diameter from 5 to 8 inches, having a weight to the engine and attached to the ex haust manifold in the same manner as a muffler. The kerosene is vaporized by passing through a mixing valve and the apor is drawn by the suction of the er rine through a tortuous passage, about twenty feet in length, contained withi

The thin walls of this passage are surheat the vaporized kerosene. It is simple matter to conduct the gas to the arburetor, where the proper amount ur is added, and it is then ready to be aken into the cylinders and exploded. Start on Gasoline.

It is necessary, however, to start the gine in the ordinary way on gasoline. he kerosene is turned on and the gasoine turned off. In the hand control the roper time in which to change over is ndicated by a dial thermometer on the hifting of the fuel and the regulation o eat are controlled by a thermostat which also governs the temperature the gas entering the cylinders, thus under all conditions of speed or load. gasification it will automatically shift 'ull confidence that it is on the proper

AGES TO BUILD

Motor Car of Today Evolved From Study of Science of Locomotion.

PHAROAH'S CHARIOT

Followed by Bullock Carts, Horse Litters, Carriages, and "Horseless" Carriages,

It required centuries to build the modern motor car, according to an Indianapolis automobile mnufacturer. This statement is based upon a remiddle. Another will twist it until it view of the evolution of the science of breaks. The third will vibrate it in a locomotion and the manufacturer declares that everything in this world is progressive; has a link that connects other machine. All of them register it with the past, and one with the future, and that therefore no one invention stands completely alone. Attention is called to the fact that from B. C. 1400 there is a record that shows the desire of men to overcome time and distance, and, to aid in this, they used chariots in times of war, in races and for private use until long after the Dark Ages. The chariots of the Egyptians are spoken of in Genesis whe Pharoah, the prime minister, said Take your chariots out of the land of Egypt.'

The bullock cart was used in 500 A. D. It was a peculiar vehicle, especially as it did not contain one particle of metal. This cart was a step further than the Indiana method of using two branches of a tree on which a platform was tied and the branches dragged on the ground behind a horse.

The Roman Litter. Among the Romans about 1000 A. D the horse litter was used by patriarchs and their equipages numbered many vari-colored affairs of state and fo private driving as well. Slaves and horses were used to carry these litters that did not have wheels. During the latter years of the Dark Ages the old Roman roads, fallen into ruins by neglect, made their use almost impos sible. The only method of transportation in those days was on the backs o mules and horses. Gradually royalty and wealthy people revived the use of carriages. The caretta was a twowheeled cart, a descendant of the ancient chariot. This was the method of ravel about A. D. 1350. It was in the Middle Ages that the introduction o wheels with spokes is found, so far as ecords inform. Horses were used but the driver never rode in the vehicle, but alway rode on the back of

Four-Wheeled Vehicles, Here is where the direct ancestor of the modern surrey came into use, and was called cargaretta, having four wheels. Extensive decorations were used on these vehicles, which were popular about A. D. 1500.

Young men considered it a disgrace to ride in the Queen Elizabeth coach in 1571 because it was considered a woman's prerogative to ride. Small wheels were introduced in front of the arge ones in the rear about A. D. 1700. This permitted the carriage turn in much shorter space. The chaise cient chariot. Its especial characteris-tic is that the body is suspended on ong wooden shafts. The calash steps and high wheels are also features. even today some types of these vehicles may be found. About 1885 the mine owner.

BRINGING DAD HOME FROM WORK.



A TYPICAL SOFT COAL MINER AND HIS LITTLE GIRL.

light four-wheeled affair. The Bicycle.

The closing years of the 19th cenmiliar with these different types. The many years of work and study

chaeton came into service. This is a automobile, which followed the bicycle was first called the "horseless carriage." Thus the entire effort of man for years to provide quick, efficient and comfortable means of transportation tury saw the bicycle come into com- all has its relative importance. Every non use. This is considered a de-step has stood upon the previous on The thin walls of this passage are sur-counded by the hot exhaust gases, which horses. Everyone is more or less fa-,.....

to limit the power of princes. But in

a step without which the political

conception of the relation of religion

asserting the equal sacrednes of ad

of the religious life went the domin

ance of the priest and of priestly

deals and a new lay culture took the

place of the clerical culture of the

LUTHER THE MOST **HUMAN OF HEROES**

His Service to the World Did Not End With Giving Liberty in Church Thought.

With his book "Martin Luther: the | With democracy, it is true, Luther had Man and His Work" (Century Com- little sympathy. In his distrust of the pany). Arthur Cushman McGiffert masses he did more to promote than maintaining perfect control of the engine adds his name to the long list of blographers and critics of the great Re- restoring to the state its own rightfu Should the engine stop for a sufficient former. In size his book measures less prerogatives and releasing it from the ength of time to cool off below the point than half the elaborate volume in Pre- unwholesome dominance of ecclesiastiserved Smith, reviewed recently in The cism and religious fanaticism he too ack to gasoline, so that the operator World. After the thought of the moment, Dr. McGiffert places the accent freedom of the present day would be on the interest in Luther as a man quite inconceivable. It is not that his ather than as a religionist. He says: | (caching in this matter was original or "He was very human, this here of singular, but that he stamped it upon urs, fiery-tempered, passionate, im- Protestantism and started the new perious, lovable withal, warm-hearted faith upon its career, claiming political and generous to a fault. Full of con- authority even less than religious in-THE AUTOMOBILE and generous to a fault. Full of contradictions, he had the frankness and carelessness of genius, and what he "In another the carelessness of genius, and what he in the carelessness of genius, and what he is the carelessness of genius, and the carelessness of genius of was he showed, and what he thought ant way Luther served the modern said, without concealment or di- world. He gave Protestantism a new

"Like a Cromwell or a Napoleon in and life. Instead of finding its high is masterful will, he was like our own est manifestation apart from the ord lincoln in his human sympathies, his inary relationships and occupations of implicity of character, his transpar- this world, it is in them, according to ent honesty. Like him he was too in Luther, that religion best expresses his quickness of perception, his quaint itself. Denying the possibility of humor and his homeliness of speech." gaining special merit by any particu And as to the work done by this lar practices and employments, and

nost human of men: "Luther's service to the modern callings, he changed the whole tone world was not exhausted in the re- society. With the peculiar sanctit ligious and intellectual liberty he did so much to make possible. In breaking with the Roman Church he broke also with the traditional principle of ecclesiastical control over civil affairs. The state is wholly independent of the church, he taught, and its sphere is altogether different. Many other Protestants, while recognizing this, and ed to be respectable, and a vast lenving the right of the church to ru!e he state, insisted upon making the Bible the supreme law-book in civil as well as in religious affairs. But this too Luther denounced as mischievous. The Bible, like the church, has had to do with religion, not politics. The state is to be governed acording to natural reason. Statesmen, not theologians, are to be its guides.

niddle ages, to the immense advantage of society at large. "Mendicancy, about which monasticism had thrown a noxious halo, ceasamount of unemployed energy was turned into useful channels, to the creat economic benefit of Protestant ands. The supreme Christian duty was lared to be labor for the good of ne's fellows, instead of concern for

the salvation of one's own soul, and justification was thus given to socia service the worth of which Christen dom is only now beginning to realize "The political implications of such a Dr. McGiffert's book is freely illus esition as this are almost incalculable, trated and lives clearly the story of

A PERSONALLY CONDUCTED HOME-GOING-EVEN BABY HELPS.



The anthracite miner and his family of "kids" carry pa's pick and shovel ceme to await the ending of the strike; also the miner is taking his last "allowance" of coal; after April 1st he has to buy his fuel; up until now his little children were "allowed" to pick up fallen coal by the "generous" coal

London Paris Toronto Canadian Depot : Eastern Avenua Adel of the post o Rettogas TOASTED See the Kellogg "Corn Fed" boy! Isn't he a big, chubby fellow? Every morning he gets a big dish of the "growing" food - Kellogg's Corn Flakes. He thrives like your children will thrive when you feed them the nutritious

finest corn.

No better cream in all the world

than this for skin troubles of all kinds, eruptions, or itching, for abrasions and in every case where

a pure scothing, comforting, per-feetly hygicaic continent is required.

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sweet hearts of the world's

Luther's life, regarding the details of which modern research has left little oom for dispute.

GERMAN ELECTION

Continued From Page Seventeen.

block, 155,000 Radicals, and no les than 565,000 Socialists. There are 137, 000 Socialists in Hamburg, and 3,000 only of the parties of the Right. There are 43,000 in Nuremburg and only 7,000 of the Right; 44,000 in Hanover and 17,000 of the Right. Majorities are as enormous on the other extreme The ten best Zentrum seats in th Rhine province consists of 10,00 "Sozis," 2,000 Conservatives, 28,000 Liberals, and 232,000 Zentrum-an average clear majority of 19,000 in each seat over all parties. Yet in this very Rhine province the socialist vote has increased from 238,000 to 333,000 in the last four years. The constituencies in this province run from 23,000 electors to 127,000. With an equal listribution of electoral areas the Socialists should have had nine seats instead of five in the Rhine province, the Zentrum 17 instead of 26

It is, of course, in the agricultural listricts of the west that this unfair distribution of seats gives the Conservative Junker a chance. Such constituencies go as low as 13,000, and lose by is the Teltow, in the suburn of Berlin, with 339,000 electors, surely ne largest constituency in the world-279,000 went to the poll.

RESTRICTIONS ON GROCERS IN SEVENTEENTH CENTURY.

Shopkeepers in the seventeeth century was subject to other restrictions than those respecting prices. It was enacted that "Any person using the Trade or Mystery of the Grocer should not either by themselves or any third party directly or indirectly keep morhan one shop at the same time.' Grocers were also forbidden to se any commodities except "raysons urrants, sugar, spice, sope, candle nolasses, gunpowder, shot match, tar oitch, rozen, tobacco and pipes, co on wool, cotton yarn, starch, blueing ise, linseed oil, white and red lead olives, prunes, figs, Spanish white labaster, alum, almonds, brimstone, ampblack and candle rushes."-Lon-

lon Chronicle. SOVEREIGNS AS COLLECTORS.

The ex-Sultan Abdul Hamid ha n his palace the finest collection of precious stones ever brought togethe some of which were recently sold i Paris. The tastes of the Czar Fer dinand, of Bulgaria, run in the same lirection. His collection of diamonds sapphires and emeralds is estimated o be worth £600,000.

The Kaiser, we are told, has a pas sion for old uniforms and boots and shoes of antiquity. Bavaria's Regent has a love for old beer pitchers, especially those of his own country of the middle ages.

The late King of Sweden possessed a magnificent collection of rare books engravings and medals, while Lud wig I, of Bavaria, rejoiced in a colletion of umbrellas .- London Globe.

WOMAN'S MOST SUCCESSFUL MEDICINE

Known All Over The World -Known Only For The Good It Has Done.

We know of no other medicine which has been so successful in relieving the suffering of women, or received so many genuine testimonials, as has Lydia E. Pinkham's Vegetable Compound.

In nearly every community you will find women who have been restored to health by this famous medicine. Almost every woman you meet knows of the great good it has been doing among suffering women for the past 30 years. Fox Creek, N. B.-"I have always

had pains in the abdomen and a weak-



ness there and often after meals a soreness in my stomach. Lydia E. Pinkham's VegetableCompound has done me much good. I am stronger, digestion is better and I can work with ambition. I have encouraged many mothers of families

to take it as it is the best remedy in the world. You can publish this in the papers."-Mrs. WILLIAM S. Bourque, Fox Creek, N. B.

In the Pinkham Laboratory at Lynn, Mass., are files containing hundreds of thousands of letters from women seeking health, in which many openly state over their own signatures that they have regained their health by taking Lydia E. Pinkham's Vegetable Compound, many of whom state that it has saved them from surgical operations.



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he spending of any of your money) to be complied with.

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S GIVEN AWAY FREE 2

For correct solutions of A.B.C. Puzzle.

Read Carefully if You Wish to Win a Money Prize.

"Simple as A.B.C."
the old saying is. This puzzle may look simple, but try it, and you will find it puzzling enough.

The puzzle is to count the number of A's, B's, and C's in the square. State how many of each letter you find.

To the person who sends in the highest correct count we will give the sum of Thirty Dollars (\$50.00).

To the person who sends in the third highest correct count we will give the sum of Thirty Dollars (\$50.00).

To the person who sends in the third highest correct count we will give the sum of Thirty Dollars (\$50.00).

To the person who sends in the person who sends in the third highest correct count we will give the sum of Thirty Dollars (\$50.00).

To the person who sends in the person who sends in the

fourth highest correct count we will give the sum of Twenty Dollars (\$20.00)

the first two prizes will be divided between them, each receiving the sum of

Seventy-five Dollars (\$75.00). Should three persons send in equally correct

answers, the first three prizes will be divided between them, each receiving

the sum of Sixty Dollars (\$60.00). Should four persons send in equall-

correct answers, the whole sum of Two Hundred Dollars (\$200.00) will be

livided between them, each receiving Fifty Dollars (\$50.00). And so on in

DO NOT SEND ANY MONEY

We mean exactly what we say. We do not ask you to send us any of our money. There's only one simple condition (which does not involve in

advertisement may not appear again. We will reply at once, saying whether your answer is correct or not and will send you a full prize list, together

If you think you can correctly count the A. B. C's, write to-day, as this

Should two persons send in equally correct answers for the first prize