te glass a rich

according to lount Wilson or years been let light, octhe manganich are interfanufacturers a black dustto whiten it. giass would a amount of nkish color. tra-violet ra-

ects the manc possibly by f the saygan tion, then the ts or renects ng the uitra-It is a slow color deepens eleven years. ays fixed, unoxygen lamp

tifully colored thin two or restored the its original he atoms in re before the bsorbs : ltrag true, how nder side of a

Most bottles colored. the the upper ation is that Licular wave and are not pper wall of ed in and, not on the ules in the whole bottle

rays. It is nly foreign in the destore or less upon the the glass. produced by A Los Ang to the deiss. is now g the desert,

lying thick that have atmosphere, hair-makers or so long ng ago. For was writing oods knew oven tents, es in Arab mner that primitive and by the astonishing inness, the em stand while the the raw 1 mber.

the workm in this a scene the great d of maspeed and aten; for and the tere is a upon the retrogresa craft Hampden rdly inapge.-From by Clare

arles P. American received have pro-

uable in-

Meteors

Perseid ached its astronomy isylvania, seen and 16, when not yet ndications oximatere observadded:

volunteer r thow:r t Novemood hores ay which Perseid. rved from

Homecoming

By Helen Trevelyan

SEPTEMBER 10, 198,

The little old lady stood on the outskirts of the great, roaring station, always-I know.' And then, as hesitant and confused. The hurrying though remembering something, she crowds and the noise left her flustered after the peace and quiet of her village. She paused and looked anxiously around.

A kindly porter, spotting the frail figure, with its wisps of grey hair un- can't bear-" der an old-fashioued bonnet, darting Abruptly she pulled herself together, helplessly to and fro, went quickly to her assistance.

"Want a train, missus?" he asked.

upon him. "Oh, thank you-no. That it was like a knife thrust in his heart. is, well-yes, you see, my son is com- "You see, I've got to finish my-my ing from Scotland and I do not know job, mother." where to meet him and-" He beamed. "That's all right," he

Across the vast expanse of station led at her courage. they went—the long swinging strides | "Well, there—that will be your train of the kindly porter, and the small, in now. Perhaps you had better be tripping steps of the little old lady. taking your places." She was so thankful to have him there! She did not attempt to follow them, helping her, making a way through nor did they suggest it. the pushing, purposeful throng, which Neither did mother nor son take every now and then threatened to even a parting kiss of farewell touch overwhelm her. At la t he came to a of one another. It had always been standstill and steered her to the back that way. Otherwise they could never of a slowly surging queue.

"There, you'll be all right, now," he The guard waved his flag and blew her to nod her mute thanks.

imitation moleskin coat just in front had turned to crystal in her eyes.

Thep neared the barrier. "When is Very slowly, Mike lowered his left it due? When is it due?" nearly every hand from his forehead, and handed other person inquired of the tired man the warrant book back to its rightful. standing there, and hardly listening to owner. his reply: "In three or four minutes." He kept repeating it wearily.

Poor thing, thought the little old lady, the train's coming means noth- Basket Ball Players ing to him beyond so many more hundred tickets and passes to be clipped, beat furiously and she longed to hear covers.

hind, for that was how she always could be recorded with considerable was disallowed. Eventually in 1798 moments of her life-a little apart, a is announced in the research quarterly after Edward, Duke of Kent, father little separate.

ing years.

her stern belief in him, her implicit more than 11 feet every two minutes. faith to keep the fire of courage From the first to the last four-minute burning bright throughout. While peo- period of the first half of the game most of us a verdict of regrets . ple pestered her with searching quest the distance covered falls from 1,561 Folly brings more lost hopes than tions, hinted at hidden truths, and to 984 feet. The player is never as it will ever bring fortunes. even suggested having heard of him active again as during the first four | The dangers the mind fears most being seen in bad company. And above minutes. He reaches almost the same rarely appear to view. it all her faith had triumphed, and to- level again during the third four-min- It is not want of thought so much as day that triumph would find its reali- ute period of the second half but fin- selfishness makes many forgetful. zation. The home was waiting, and ishes the game at a decidedly slackshe was ready. No matter what had ened pace. held him silent and away from her, Most players estimate that the There is one thing in the world our the future would bring recompense to distance covered in a game would be loes never envy us-our bodily sufferboth of them.

The signal dropped. And the little old lady's eyes filled

with tears.

It was ridiculous, she told herself, to shed tears for happiness and never be able to cry for unhappiness. But she couldn't help it. She reflected. The tears always seemed to crystalize with sorrow and flow with joy.

The thundering majesty of the magnificent express was blurred to her; only the music of it rang clearly in her ears. She rocked a little on neat, black-booted feet as the waiting crowds intermingled with the eager arrivals, rushed together and were lost in those curiously thrilling moments of meeting and being met; and she dabbed quickly at her eyes with a large white pocket handkerchief. Because whateve: happened, she must not disgrace Mike.

And there he was-

moment they fell apart and stood gaz- plans ing into each other's faces. And suddenly she saw the other man standing so close behind him. Her look passed to Mike and then back again, inquir- in Birmingham and explained in the

"Ah, yes, mother, I must explain everything."

She remembered afterwards thinking how different those first words were from what she had planned and "Look!"

And with his left hand he opened his coat and showed her the warrant book of a detective,

"Why, Mike-?" And then her eyes travelled to his right, imprisoned arm, and she saw the handcuffs on the wrist. "Why, Mike-?" It was almost a whisper.

"That's all right, mother," he blus-"Don't look so round her thin shoulders. "It's my fob. see? That's why you haven't up and down the country-all over the thest insight into Nature have been in place - after - after, well, criminals all ages firm believers in God .- Whe and such-and I tracked this one down well. in Scotland, and knowing I'd have to bring him through London on the way to prison, I couldn't resist sending you Nothing so increases one's revera wire to be here-so that I could ence for others as a great sorrow to see you-it only for five minutes. Just one's self. It teaches one the depth while we changed trains—our next is of human nature.—Charles Buxton.

due any second now over there," and he pointed to the opposite side of the platform.

There was a pause. And suddenly, almost diffidently, the little old lady put out her hand and laid it gently on the other man's rough sleeve. I "Never mind," she said, softly.

turned swiftly to her son.

"But Mike, does that mean you're going away again?" He nodded.

"Oh, but for how long, dear boy?

and asked quietly: "For how long. "Not long, mother-a year or so, She turned a startled, grateful look thes agony of dismay in her face and perhaps. I know, I'm sorry.' He saw

"Yes, yes, dear, of course."

She had complete control of herself assured her. "Come on. Follow me." by then, and was entirely mistress of the situation. And both men marvel-

hare borne it.

beamed again, and hurried off, leaving his whistle, and she stood waving the large pocket handkerchief until the Men, women and children pressed train became a distant curl of smoke. forward, and she clung grimly to the She could not cry, because the tears

"That was great of you," he said .-"Tit-Bits."

a point of not asking what time the two and a half miles during a game- as "Ile St. Jean" and to the English At dandelions bowing gravely express was due, although her heart almost a mile less than he thinks he as "St. John's Island." In order to To themselves in the brook.

of the American Physical Education of Queen Victoria, who was then in Perhaps I shall forget the brown bluff And for this moment she had lived, Association, by Lloyd L. Messeh- command of the troops at Halifax, Over the brook I just climb and fought to live, for three long, ach- smith and Stephen M. Corey of the Nova Scotia. Psychology department.

Without a word from Mike, and only They found that a player moves

about three and a half miles. -----

Singing Waters

One loud and crashing deluge is the

And all the hills are laced with flashing falls, And loud from strath and glen as we

The voice of water calls-

The voice of singing water; and the Long-buried wellspring that has

In the dark cavern of my heart, from

-Wilfrid Gibson in the Commonweal

Wakens again to song.

Britain To Discuss Effect of Movies on Youth

Birmingham, Eng.-The effect o motion pictures upon children is to There were no words, no time or be discussed at a national conferplace for words, only a fierce hug to ence in Birmingham within the next say everything for them. After a brief few months, according to present

ready have been started in English towns, modeled after a study made report of the Birmingham Cinema In-



"it's an awful come down for a

Nature Those who have obtained the far-

At Aldershot Manoeuvres



A sniper of Greys in action during Aldershot, England, war manoeuvres, recently, in which 15,000 men took part. The largest scale operations since the war.

Prince Edward Island

The In an name of Prince Edward It is quiet here. Tree shade Island, Canada's island province, is Is a cool place. I will rest "Epagwit" meaning "resting on the Easily in the shadow. I will lie waters" according to the Geographic On the earth's breast, Cover 21/2 Miles Board of Canada. The island was And look at what sky I can see collected, and checked. And she made A basketball player travels about known in early times to the French Throug' leaves, or perhaps look prevent confusion with St. John's. his cold, reassuring "In three or four The actual distance was measured Newfoundland, and Saint John, New Not thinking of this thing or that Then add water to form a fairly heavy the rubber in place. at Depauw University with the aid of Brunswick, an Act was passed in 1780 Once on the platform she let the a device known as the pursuit-meter, naming the island "New Ireland," but I will lie crowd pass and leave her a little be- by which every movement of a player as the name had already been used, it And forget the road I have traveled apply. In about two days this mix- plug, the outer electrode will someliked it to be in the great important accuracy by an observer. The result the island received its present name, To look at the sky.

Briefs

A little self examination brings to Before I must leave this hollow

From a horny hand of toil comes the richest harvest of content.

A meddling mind is more to

feared than unlawful intruders.

----Religion

A man's "religion" consists not of the many things he is in doubt of and tries to believe, but of the few things he is assured of, and has no need of effort for believing.-Carlyle. ---

Bread of Life poetry; the water of life, faith,

not we are slaves.-Dr. Black.

The Hollow

As high as the trees are high. Perhaps I shall forget time And lie here forever, forgetting How soon it will be Reluctantly.

-Lynn Riggs, in "The Iron Dish."

Rain is Healthful

Rain has fallen nearly every day for months past in England, but as a result, has been unusually on the handle. To fill with heavy Try dipping a clean cloth in gaso-

healthy. Margate, Yarmouth, and the Isle of then replace the plunger and cap. | with a dry cloth, Man show that the air is charged with ozone to a degree impossible in a hot summer, and a Harley Street specialist has stated that the air of London has probably never been

Geodetic Bench Marks

The method of the Geodetic Survey of Canada, Department of the Interior, of noting the various elevations above sea level throughout the The bread of life is love; the salt Dominion takes the form of affixing three-inch bronze tablets to suitable permanent walls or bases whenever necessary. By reference to one of these bench marks, as they are call-If we do not reason we are bigots; ed, the elevation above sea level of if we cannot we are fools; if we dare any part in its vicinity can be as-

8,000 Miles By Canoe



After leaving the land of midnight sun and travelling 8,000 miles by canoe to Nassau, Bahamas, "Eskimo Charlie" (Charlie Planninshek) and his two children arrived at Jacksonville, Fla., having hitchhiked by vessel from Nassau.

THE CAR OWNER'S SCRAP BOOK

Locating Knocks

An instrument for locating knocks | With one wheel in a bad mud hole can be made from an old telephone re- the car will usually be as disabled as ceiver and an iron rod. Procure a dis- though both wheels were in the mud, carded telephone receiver, remove the as the action of the differential causes magnet and insert an iron rod about the one wheel to spin. To get out of than 100 miles of Mount Whitney, the two or three feet long. Thread three- such a difficulty, proceed as follows: highest peak in the United States proquarters of an inch of the end of the Disconnect the emergency brake rod rod and screw a small nut all the way on the wheel which rests on solid down on this end. Then place a piece ground. Then pull back the brake of round fibre on this end and screw lever hard, which will lock the wheel dower spots in the valley still awaiting another nut on the end of the rod to in the mud hole. By letting in the the surveyor's telescopic eye. hold the fibre securely. The fibre clutch, all the power will be applied should be of sufficient diameter to hold, to the wheel on solid ground, which of desert streams, so that there is on the rod snugly in place. A fairly heavy will usually drag the other wheel out its arid floor a vast accumulation of brass spring should now be placed on of the mud hole. the end of the rod and secured with a

When the fibre and spring have been fastened in place, finsert them into by the following method. After re- eighteen years ago, July 10, 1913, that held by the magnet. Cover with tape the hole at the other end of the receiver, where the rod passes through. Next replace the diaphram and ear- lightly all around the edge of the disc. days, until September 13, 1922, when piece on the receiver and be sure that This raises the tension in the center, the Tripolitan town of Azizia sizzled the brass spring.

Now by taking soundings at different parts of the motor with the re- in the centre of the disc. the rod resting on the motor, the source of the trouble.

Repairing Cracks in Engines sistency slightly thinner than putty their original transparency. and work into the opening while the engine is warm and the cooling system is drained. The engine should not mixture has thoroughly hardened.

paste. After mixing this paste, allow it to stand for a few hours and then

greatly resembling cast iron.

How to Make a Grease Gun A very serviceable grease gun can be constructed from an old single cylinder foot pump. The lower end of the pump is sawed off just above the foot piece. Then take a fairly large sized funnel (one that is made of heavy gauge metal) and cut it off apparent cause. It is probably due to just above the spout. Solder the funnel to the bottom of the pump cylin-

Oil or light transmission grease can be drawn into the gun by putting the end into the oil or grease and pulling grease, unscrew the cap and remove line and rubbing lightly over the wind. ried decided to test her sweetheart, Tests made this year in Brighton, the plunger; fill the gun with grease, shield and windows, then polishing and, with this object in view, called

"Don't you know that? Any fool

"That's why I asked you."

faces and a bad memory for debts.

Some men are so self-confident tha

they are unable to distinguish a cheer

could tell you."

from a jeer.

Mud Holes

Tuning the Horn

The pitch, or tone, of an electric plied the world. horn can be raised or lowered at will It was on a blazing midsummer day moving and taking t'a horn apart, the official thermometer at Greenland which the sound is produced, on some degrees Fahrenheit. This figure stood smooth, hard surface. Then hammer for nine years, two months and three which causes a quicker and higher up to 136 degrees in the shade.

Celluloid Curtain Lights knocks in the motor will be magnified. The best way to clean and renew high average temperature year after making it very easy to locate the celluloid curtain lights is first to use year, and practically every summer it clean vinegar, applying it with a soft turns out a few days-or perhaps even piece of cheese cloth or gauze. Keep | weeks-of weather fit for old-timers to the vinegar away from the curtain brag about. Small cracks or holes in the water material, as it might discolor it. Then, And it can do a handsome job in jackets of an engine may be closed if the lights are scratched they may be droughts, too-months on end without by applying a paste composed of renewed by applying acetone varnish, the hundredth-inch sprinkle of rain glycerine and litharge. Mix to a con- which will restore them almost to that is the United States weather

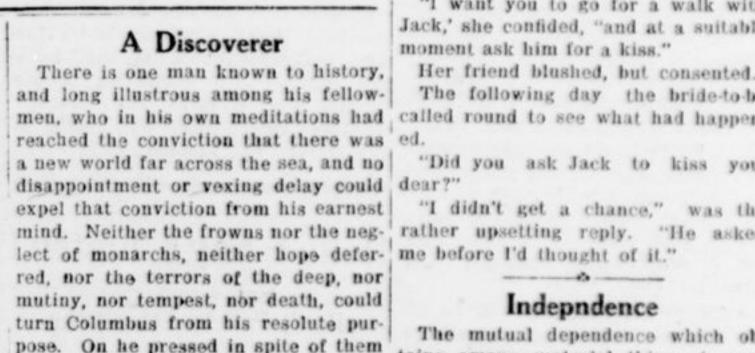
Leaks in the Top Small leaks in the top of the car can be used for a few days, or until the be repaired with the same rubber compound that is used for filling cuts in For parts which are exposed to in- tire casings. Press the compound setense heat, such as the exhaust mani- curely into the hole and then trim off fold, the following mixture should be the excess. Allow it to stand for a few used: Fine iron filings, 40 parts; flow- hours and then apply heated flat-irons ers of sulphur, 10 parts; sal-ammoniac, to both sides, pressing together firmly. 1 part; Portland cement, 20 parts. The heat of the irons will vulcanize

Repairing a Spark Plug

ture hardens, forming a substance times break off, rendering the plug his private office. The exact position useless. But it is not necessary to throw the plug away. Merely bend ed which doors swung in and which the center electrode so that it stands close to the outer shell, setting the space to the usual gap space. When the Engine Stops Suddenly

Sometimes when out on the road, the engine will stop suddenly without one of the following troubles: No gasoline supply. Spark plug broken, Electric circuit disconnected at some point. coming to your office to-day to ask A broken wire. A loose terminal, you to let him marry me."

Timer trouble. To Clean the Glass



all-serene amid the tempest-full of hope when all around seemed to tell only of despair; and he stood at last on the shores of a lovely island in the Many a man has a good memory for ocean-the discoverer of lands whose

> the world!-Tweedie. Picking winners is usually a losing

discovery has changed the history of

Sun Electrons Cause Blue Sky New Light Experiments Indicate

streaming from the sun may be the Dr. Cohn points out that at the upper cause of our familiar but mysterious layers of our atmosphere electrons blue sky, Dr. Willi M. Cohn, of the continually arriving from the sun and University of Berlin, has concluded as ions of the gases which form our air the result of his experiments in which meet in the intense vacuum of space. a blue light very similar to that from Since under such conditions in his the sky was produced in the labora- laboratory the blue light which is so tory. Dr. Cohn is doing high tempera- like the light from the blue sky is forture research at the A. D. Little la- mal, he believes that the blue of the boratories and will start researches at heavens may, at least partially, have Harvard shortly.

Dr. Cohn experimentel in Berlin tory.

through, have quite different spectra, polarized, partly not

Mass. - Electrons which show only thin colored lines the same cause as that of the labora-

with cathode rays in a high vacuum, Since the time of Newton scientists formed in a tube similar to the x-ray have speculated on why the sky is True courage has so little to do with tube. He allowed the stream of elec- blue. The most successful explana- anger, that there lies always the trons, which is the cathode ray, to tion heretofore has been that of Sir strongest suspicion against it where meet larger electrically charged par- John Tyndall and Lord Raleigh in the this passion is highest. True courage ticles of matter, known to scientists last century, which considers it due to is cool and calm. The bravest of men as ions, which are formed either from sunlight broken up in a particular have the least of a brutal bullying ina piece of radioactive metal, such as way by spherical particles in the at- solence, and in the very time of danthorium, or from a gas. The blue light mosphere. Dr. Cohn states that his ger are found the most serene, pleasappeared where the electrons and the theory does not conflict with the older ant, and free. Rage, we know, can one so far as direct sunlight is con- make a coward forget himself and This blue light can be broken up by cerned. He points out that the Tyn-; fight. But what is done in fury or anprisms to form a spectrum or "rain- dall-Rayleigh theory would expect the ger can never be placed to the account bow" of continuous color, just as is light from the sky to be polarized so of courage.-Shaftesbury. found in sunlight. The blue light that all its waves would vibrate in a from the clear sky also shows a con- particular way. The light produced tingous spectrum, although gases, by Dr. Cohn in the laboratory is not such as the air this light passes polarized, and daylight is only partly after thy death there can only be

Strate to X Many in Living Strategy

Death Valley

Death Valley, that strip of desolation in Southeastern California, holds the highest honors in heat for the western hemisphere, and a few years ago, before it was ousted by the city of Azizia in North Africa, it was the world's champion mercury booster.

Death Valley is a deep trough between two mountain ranges. It is something over 100 miles long and averages ten miles wide. Within less per, it sinks its lowest depression of 276 feet below sea level. This is official measurement; there may be

For ages it has been the catch basin concentrated mineral salts of various kinds, including the famous borax deposits that until a few years ago sup-

pitch d tone. If one desires to lower But Death Valley's claim to distincthe pitch, hammer a few light blows tion is not based on a single spectacular day's work. Death Valley is a consistent performer. It delivers a very

bureau's minimum requirement for a rainy day. When the rest of the country was parching in the great drought of 1930, Death Valley outdid itself. It had no recorded rain all year, and the drought overlapped on one end into December, 1929, and into January, 1931, on the other; 401 consecutive days on which no measurable precipi-

Exits Smith, on the way to the city, found When adjusting the gap of a spark a slip of paper just outside the gate of his house. It was a detailed plan of of the stairs was shown. Notes showswung out. Even the windows were

Smith, alarmed, rushed back into

"Some burglar must be going to raid

my office," he told his family "Oh, it isn't that!" cried his daughter, glancing at the sketch. "Those notes are in John's handwriting. He's

Caught A young woman about to be mar-

"I want you to go for a walk with Jack,' she confided, "and at a suitable moment ask him for a kiss."

and long illustrous among his fellow- The following day the bride-to-be men, who in his own meditations had called round to see what had happen-

a new world far across the sea, and no "Did you ask Jack to kiss you, expel that conviction from his earnest "I didn't get a chance." was the

Indepndence

The mutual dependence which ob by every other atom. But the unity which exists among intelligent and responsible persons, their mutual dependence and relationship, is just as real as that which obtains among material things, and is far more wonderful, more solemn and important in its nature, causes, and consequences .--

Work

Work is of a religious nature-work fronts it not bravely, it will keep its dertake in this world."-Carlyle.

Be not afraid: during thy life and but love.- A Persian writer,

ONTARIO ARCHIVES TORONTO