News of the Week Cut Down for Busy Readers

Washington

At a conference at Washington with President Harding the railway unions decided to call another conference with railroad executives in an effort to reach an independent settlement of the shop strike.

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Increased loading of coal cars was reported to the central coal distribution committee at Washington. Loadings on Friday totaled 13,253 cars, an increase of 753 over the previous Friday.

• • •

The continued use by Germany of the term "empire" in diplomatic documents came in for considerable discussion in official circles at Washington.

• • •

Hope of immediately ending the rail strike was blasted at Washington when the railroads and the unions rejected President Harding's third proposal for settlement.

• • •

A decrease of $2,745,328,436 in the value of American exports for the year ending June, 1922, was announced by the Department of Commerce at Washington. The value of imports for the same period decreased $1,046,470,338.

• • •

Prospective production of corn this year increased 150,000,000 bushels as a result of growing conditions. Wheat production is forecast at 12,000,000 bushels less than a month ago, Washington reports.

• • •

Hides, leather and shoes were put on the free list by senate vote at Washington.

• • •

President Harding at Washington asked the railroads and the unions to end the shop strike and leave the question of seniority to the railroad labor board.

• • •

After President Harding at Washington told the senators he wanted flexible tariff provisions the senate approved them, but with restrictions forced by Senator Lenroot.

• • •

Personal

John G. Woolley of Madison, Wis., prohibition candidate for president of the United States in 1900, died at Granada, Spain, after an illness of some days, due to a cerebral attack.

• • •

Viscount Northcliffe, noted British publicist, died at London.

• • •

Levy Mayer, head of the law firm of Mayer, Meyer, Austrian & Platt and nationally famous as attorney for some of the country's largest industrial interests, died suddenly at Chicago.

• • •

Prof. Charles A. Babcock, founder of "Bird day," observed in schools of many states, is dead at his home at Oil City, Pa. He was author of many books on birds and educational methods.

• • •

Domestic

All employees of the Lake Carriers' association below the grade of licensed officers have been granted wage increases of $15 per month effective September 1, it was announced at Cleveland, O.

• • •

The British schooner Marina, 200 tons, bound from St. Pierre-Miquelon to Havana, with a cargo of 2,000 cases of whisky, was captured off Block Island, near New York, by the submarine chaser Hahn.

• • •

Pelham A. Barrows, lieutenant governor of Nebraska, and for the past week acting chief executive during the absence of Governor McKelvie, also is working as a $5-a-day strike guard at Lincoln, Neb.

• • •

"Big Tim" Murphy, on trial at Chicago for two months as a conspirator in the murder of Police Lieutenant Terrence Lyons, was freed of the charge when the state's attorney nol-prossed the case.

• • •

Chiefs of engineers', firemen's and trainmen's brotherhoods notified men to quit work if guards are used or if equipment is judged dangerous. Many trains are tied up throughout the country.

• • •

John Leeven, sixty-eight years old, of Rock Island, was killed, and Mr. and Mrs. C. L. Smith, also of Rock Island, the latter a daughter of the dead man, slightly injured, when their auto turned over near Clinton, Ia.

• • •

Two nonunion employees of the New York Central in Cleveland were shot and killed.

• • •

Mrs. Elizabeth Schafer, seventy-two, prominent Pana resident for 60 years, died at Pana, Ill., of septicemia caused by the infection of two toes. Her husband and eight children survive.

• • •

A group of New York bankers have pledged themselves to underwrite the [illegible]

Bituminous operators and miners at Cleveland drafted a wage contract which will end in part the strike that began April 1; other operators may join in agreement when they wish.

• • •

The strike of the Big Four brotherhood men of the Union Pacific was called off and four eastbound trains left San Bernardino, Cal., immediately.

• • •

Funeral services of Mrs. Knute Nelson, wife of United States Senator Knute Nelson, were conducted at the Norwegian Lutheran church at Alexandria, Minn., Rev. A. T. Tjornholm officiating.

• • •

Lieutenant Moriarity and a Mr. Stonebreaker were burned to death when the airplane which they were flying caught fire in a flight over Wilbur Wright field, near Dayton, O.

• • •

William Giberson, wealthy lumberman, was shot and killed by two burglars in his home at Lakehurst, N. J.

• • •

Sheriff S. A. (Bud) Felker of McCurtain county was shot dead at a lumber camp near Isabel, Okla., when raiding an alleged bootleggers' den.

• • •

Five persons were drowned in Brandon lake, near Lamar, Colo., when a flat scow from which they were fishing overturned. None of the party escaped.

• • •

Trainmen of the Chicago, Aurora & Elgin line voted at Chicago, 304 to 34 to go on strike.

• • •

A new air record was made when a party of 64 American college girls touring Europe, planed from Paris to London. Four airplanes were used.

• • •

Soo train No. 11 was wrecked just south of Portal, killing 12 persons and injuring others, according to reports received at Moosejaw, Sask.

• • •

The Georgia peach crop this season was worth more than $8,000,000 and was the third largest crop grown, according to announcement by the Georgia fruit exchange at Atlanta.

• • •

The federal district attorney in southern California was ordered by Attorney General Daugherty at Washington to investigate "whether the abandonment of trains on the Santa Fe railroad was the result of a conspiracy."

• • •

Thirty-seven prisoners in penal institutions in Indiana were refused clemency by the state board of pardons and ten received parole, following a report of the board to the governor at Indianapolis.

• • •

Louisville & Nashville engineers on the Henderson-St. Louis division voted at Evansville, Ind., to remain off duty until equipment is put into good condition and armed guards removed from railroad property.

• • •

A new navy hospital built at a cost of $1,000,000, will be commissioned at San Diego, Cal., on August 24. By September 1, officers say, the personnel of the hospital will number 600.

• • •

Edward W. Schillo, former racing driver, and Leroy Keller, his assistant, an overseas aviator, plunged 3,000 feet in their plane to death in one of the main streets of Naperville, Ill.

• • •

One million dollars' damages is sought by Evan Burrows Fontaine, dancer, in a suit for breach of promise filed at Saratoga Springs, N. Y., against Cornelius Vanderbilt (Sonny) Whitney, son of Harry Payne Whitney.

• • •

Foreign

In retaliation for British solidarity with other nations at The Hague conference against the Bolsheviki, the latter have seized three British steamers and arrested three Britishers at Batoum.

• • •

Arthur Griffith, president of the Dail Eireann, died in Dublin of influenza.

• • •

The commissary general of Alsace-Lorraine at Strasburg has announced that 500 German undesirables in Alsace-Lorraine have been served with expulsion notices and must cross the frontier at once.

• • •

After a month of most terrifying experiences, Clonmel, long known as one of the cleanest and most businesslike towns in southern Ireland, is again in the hands of the Free State forces, says a Dublin dispatch.

• • •

Deaths in the typhoon of August 2 at Swatow, a seaport 250 miles northeast of Hongkong, are estimated at 50,000, the American consul at Swatow has reported to the American legation at Peking.

• • •

M. Demuyter, pilot of the Belgian balloon Belgica, in the James Gordon Bennett cup race, has been declared winner, says a dispatch from Geneva.

• • •

The foreign office at London announces that the governments of India, Canada and South Africa have agreed to ratify the treaties entered into at the recent Washington conference.

• • •

A dispatch from Helsingfors reported the sinking of a Russian destroyer during maneuvers. No mention was made of casualties.

• • •

[illegible]

Our Aviation Problem

SENATOR WALSH (MASS.) WOULD HAVE DEPARTMENT OF NATIONAL DEFENSE, COMBINING ARMY, NAVY AND AIR

SECRETARY WEEKS

By JOHN DICKINSON SHERMAN

YOU'VE often heard of Eddie Rickenbacker, our American ace-of-aces. Well, he started recently on an aerial tour of the United States. He was to visit all the states and to report to the federal government on the condition and availability of landing fields and on other aviation matters. Probably he had a good machine; it is to be presumed that he had the best available. And what did Eddie Rickenbacker report? Nothing, nothing at all. His machine was forced down four days in succession. Thereupon he abandoned the trip.

In Chicago, not long ago, a local flyer took up a bridegroom and bride for a short flight. They were honeymooning and wanted the best there was going in the way of seeing the sights. The machine crashed. Both passengers were killed.

President Harding was making an open-air address recently in Washington. A commercial flyer took his plane full of sightseers so close that the President's voice was drowned out and so close to the vast crowd that had the plane fallen scores would have been killed and injured.

These are but three incidents—any issue of a newspaper will furnish more—which clearly indicate, according to the experts, that aviation in the United States is at loose ends and that the situation is so bad that something really must be done about it.

By way of emphasis to our own do-nothing policy, the experts declare, Europe is dotted with landing places and lined with air routes. European nations are stimulating commercial aviation with subsidies.

On the other hand, according to the experts, the results of systematic development are shown by the fact that the air mail service of the Post Office Department has just completed a year without a single fatal accident, with 1,750,000 miles covered.

In congress the Wadsworth-Hicks bill is pending. This provides for a United States bureau of commercial aviation.

Out of congress the National Aeronautic association and the Society of Automotive Engineers are co-operating the drafting of an aeronautic safety code, with the assistance of experts of the bureau of standards. Pending the passage of the Wadsworth-Hicks bill the draft of its safety code is tentative, but its principal provisions will include:

Inspection of aviators and aircraft in connection with the granting of licenses to pilots and air transportation companies; prohibiting of dangerous proximity of aircraft in flight; rules governing personnel and equipment of airdromes, including medical and signal equipment; aircraft radio regulation rules for landing fields; lighthouses for night flying and landing.

In the senate the other day Senator Thomas J. Walsh of Montana read into the Congressional Record an article [illegible]

[illegible] progress has been made and rapid strides have been taken in the development of this science. Many foreign nations, cognizant of the necessity and importance of aircraft, have initiated military programs and programs of mail and passenger transportation in the air far superior to the present policy of our government, and have done much to encourage the general development of aeronautics through governmental aid to commercial industry. Great Britain particularly, very soon after the war, reached the conclusion that the dominance of the air is at least of equal importance with that of the seas and set about to plan a definite policy of aerial development and the co-ordination of her aircraft activities, leading to the establishment of a separate ministry of air, which has taken the lead in practically every phase of aerial development.

"Economic considerations as well as those of national defense demand that the United States immediately formulate a definite, comprehensive and intelligent policy for the development of every phase of aeronautics and of actively encouraging the aerial transportation industry, which is vitally essential to the future progress and prosperity of the nation. To neglect longer the establishment of an intelligent policy is inexcusable.

"Because of the absence of any well-defined sympathetic program on the part of our government since the armistice, the American aeronautical industry, built up at such great expense of money and effort during the war, is rapidly disappearing. The almost antagonistic attitude of our government toward this industry has discouraged business men, and under the circumstances they were entirely justified in withdrawing their money from this field. Ninety per cent of the aviation industry created during the war has been liquidated, and unless a more sympathetic and definite policy of co-operation is established without delay, it is inevitable that the remaining 10 per cent will also disappear. The future development of aerial navigation generally is in no way limited to military and naval functions and the [illegible]

[illegible]

RADIO

ALL ABOUT VACUUM TUBE AS AMPLIFIER

Connected Up to Furnish Rated Filament Current and Maintain Plate Potential.

Figure XXIV shows a three-electrode vacuum tube connected with the "A" battery to furnish the rated filament current and a "B" battery to maintain rated plate potential. In the plate circuit is a current meter to

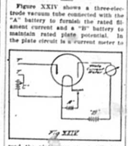

Fig XXIV

read the plate current. A "C" battery is connected in the grid circuit to maintain the grid at the positive potential O-A in order to have the tube operate at the point A on the characteristic curve. To T-T will be connected the alternating difference of potential having a maximum positive value equal to A-C and a maximum negative value equal to A-B.

The resulting variation in plate current is shown in Fig. XXV. Inserting the tube functioning as an amplifier, with an amplification fac-

when RI increases, ZI must decrease. This means that when a constant "B" battery potential is applied to the plate circuit of a vacuum tube, containing external resistance, an increase in plate current causes a decrease in the potential existing between the plate and the filament.

The "static" characteristic curve was drawn on the assumption that the difference in potential between the plate and the filament remained constant, obviously then, when the external plate circuit has other than zero impedance, the static characteristic curve no longer holds true.

The characteristic curve of a tube having other than zero impedance in the external plate circuit is the "dynamic" characteristic. The greater the variations in plate current, the greater the variation in the voltage existing between the plate and the filament. If the value of R, the external plate impedance, is increased, the greater will be the variation in the plate to filament voltage for the same variation in plate current.

In Fig. XXVI (2) is represented the dynamic characteristic of a tube with a certain definite value of R in the plate circuit. Curve (3) represents the dynamic characteristic of the same tube with a larger value of R in the plate circuit. Finally the extreme condition is reached, in which R is made infinitely high and the dynamic characteristic becomes parallel to the grid voltage axis as in (4). This shows that variations of grid potential would produce no variation of plate current, but maximum variations of plate variations of plate potential. These would be amplified variations of grid potential variations.

This last condition of having the variations of plate potential amplified variations of grid potential variations is the ideal condition sought for in vacuum tube amplifiers.

In Fig. XXVII as the current of [illegible]

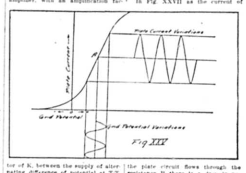

Fig XXV

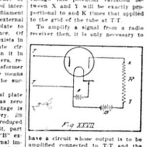

Fig XXVI

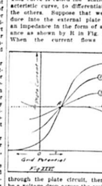

Fig XXVII

[illegible]

SPARKS

[illegible]

MANY BROADCAST STATIONS

[illegible]

THESE ARE HARD TIMES FOR CATS

[illegible]

Sun Dial Comes Back

[illegible]

THREE FUNDAMENTAL FACTORS IN IMPROVEMENT OF FARM BUSINESS

(Prepared by the United States Department of Agriculture.)

"Help the farmer to help himself," was the keynote of an address by Dr. H. C. Taylor, chief of the newly created bureau of agricultural economics, at a recent meeting of New England extension workers at Amherst, Mass. Three fundamental factors in improving the farm business were outlined: Adjustment of production to marketing conditions, co-operation, and utilizing the services of government agencies.

"I believe that when farmers have a well-balanced view of the relative importance of these three lines of action, they will look more to individual effort in solving the marketing problem," Doctor Taylor said.

"In adjusting production to marketing conditions, knowledge of the statistics of production and marketing and their interpretation in the light of past experience are primarily essential. It is the job of public agencies to collect these data, but it remains for the farmer himself to act upon them."

Discusses Hog Situation.

The present situation regarding prospective supplies of hogs was given by Doctor Taylor as a case in point. Last November and December prices of hogs were low. No adequate statistics were available with regard to the supply of hogs coming to market, and the packers overestimated the supply yet to come from the country. As a result prices were lower than was justified by the conditions of supply and demand and at the end of the winter run the storage houses had low stocks of pork.

The Department of Agriculture made a survey of pig production, so as [illegible]

[illegible] ing, Doctor Taylor said that "successful co-operation must be based upon efficient service to the 'other fellow' at a fair price, even though its prime objective be the welfare of the co-operators.

"Agriculture includes too large a proportion of the total population to prosper without the prosperity of the nation as a whole. I am thoroughly convinced that just to the extent that the motive of fixing prices as an objective in the organization of co-operative marketing is kept in the foreground and the hope of a monopoly price for farm products is the dominant motive on the part of farmers in entering co-operative organizations, the movement is doomed to fail. Agricultural co-operation promoted and or-[illegible]

This Farmer Knows the Quality of His Wheat.

Survey Shows Increase of 14½ Per Cent in the 1922 Pig Crop Production.

[illegible]

Members of Co-Operative Association Bringing Their Produce to Shipping Point—The Association Is Sufficiently Informed.

CHARD IS GOOD FOR POULTRY

[illegible]

Airplane View of Great Warehouse Fire in New York

Remarkable airplane photograph of the recent warehouse fire in the heart of the Greenwich village section of New York. Two firemen were killed and many others injured, and scores of families were driven from their homes by the conflagration.

Newsboy at Ten, Now Is Rich Man

Interesting Story of a Young American's Rapid Transit Up the Ladder of Fortune.

WINS BY BUSINESS BRAINS

Stevenson Dispels Gloomy Convictions Entertained by Many That Opportunities for Success Are Not What They Used to Be.

New York.—Here is the story of a young American's transit up the ladder of fortune which should prove engaging reading generally, but especially to American boys and youths. And again especially to such of these, who in humble jobs nurse the gloomy conviction that opportunities for success and wealth are not what they once were in their native land, who give credence to the commonplace expression of opinion that Rockefeller, Carnegie and their like long ago "grabbed it all."

The story is that of Harry Stevenson, an Ohio youngster—for he is still a youngster. He began his business career when he was ten years old. His establishment was at the corner of Fifth and Sycamore streets, Cincinnati, and consisted of a pair of [illegible]

Out of this he saved the $10 necessary to acquire the exclusive right to sell newspapers from the corner of Fifth and Syracuse streets.

Very soon afterward, actually before his second teeth were in place, he evinced what is perhaps his most distinct gift—that for organization and development. Six months later he was paying rent for two other corners and the salaries of two negro kids of about his same age to sell papers for him from his additional stands. At fifteen he was the lessee of ten corners. He had ceased hawking papers himself—merely supervised the operations of his employees while getting in full days' attendance at public school himself. His "interests" netted him forty dollars a week and he had become the chief breadwinner of his family.

At seventeen he decided that the dignity of manhood required a higher form of occupation than that of newsboy—even a "boss" newsboy. He turned over his ten corners to the control of two younger brothers. The ex-newsie essayed a high jump, for he tried to set himself up as a real estate operator. Admittedly, all he earned out of this was experience. It seems folks purchasing houses and lots or dealing in estates were absurdly disinclined to do business in such responsible matters with a lad [illegible]

[illegible]

Told to Kill Pet Chicken, Girl Takes Poison Dose

[illegible]

WOMAN OPERA DIRECTOR

Miss Emma R. Steiner of New York, a cousin of Barbara Fritchie, Civil war heroine, who holds the distinction of being the only woman director of opera in the country. She has already directed more than 6,000 performances of 50 operas, and is at present musical director of the Music temple of the world.

Forged to Buy Bible, Now Reads It in Jail

[illegible]

CALIFORNIA EGGS GO TO BRITAIN

[illegible]

FATTEN ON WAR'S LEAVINGS

[illegible]

Do You Know

Every time you buy and use cheap and big can baking powder that does not give satisfaction you have increased the cost of your bakings many times?

REMEMBER

CALUMET

The Economy BAKING POWDER

Is the best that can be made

You may get more quantity for your money—but quality means pure, sweet and always successful bakings.

BEST BY TEST

Millions of housewives buy and use Calumet because they know that it is the best leavener at the lowest price.

The World's Greatest Baking Powder

Dr. Kellogg's Asthma Remedy

for the prompt relief of Asthma and Hay Fever. Ask your druggist for it. 25 cents and one dollar. Write for FREE SAMPLE.
Northrop & Lyman Co., Inc., Buffalo, N.Y.

PUTTING MOTHER IN WRONG

Small Boy Quick to Observe Point That Might Enable Him to Escape Punishment.

It was cherry time and Richard insisted on running out in the orchard and eating the half-ripe cherries. His mother told him how much better it would be for every one if he only left the cherries until they were ripe, so they could be enjoyed. She also warned him she would punish him if he went to the orchard again.

Soon she saw him pulling off the green cherries and she went out and cut a tiny switch from the tree. Richard saw her coming toward him, switch in hand, and the little lad said to her earnestly:

"Mother, if you had only left that switch on the tree just think what a fine big limb it would have been some day!"—Exchange.

Amundsen's Ultimate Object.

Captain Amundsen's plan is to make his base at Cape Barrow. From [illegible]

ACCOUNTING FOR BLACK GARB

Simple Reason Why Girls in Railroad Refreshment Room All Were Robed in Somber Colors.

The train was late, even later than is usual on this particular line, and as they crawled through one station a weary traveler was heard to exclaim:

"What a villainous station this is! They try to irritate one on purpose. Look at those girls in the refreshment room! Why do they dress them all in black?"

"Don't you know," said the fellow-passenger in a most solemn tone of voice, and with a look of awe on his face.

"No," replied the curious and fretful traveler.

"Why," said the other, "because they are in mourning for the late trains."

Vegetarian Language.

John and Mary are the young son and daughter of the Woman's most intimate friend. John is quite plump and Mary quite thin, with a keen desire to put on more flesh, so Mary's diet is carefully watched and she is weighed each week. But Mary is young and strenuous, and last week she lost two pounds.

"Gee, you're skinny and never will be anything else," said John, when he had heard the late news. "Oh, well," said Mary resignedly, "I guess I'm only a string bean. But, after all, I'd hate to be a watermelon, like you!"

Contemporary Corrected.

From Fashionable Dress—"When the gay Bard of Avon fondly inquired 'What is so rare as a day in June?' [illegible]

TOO LATE

Death only a matter of short time. Don't wait until pains and aches become incurable diseases. Avoid painful consequences by taking

GOLD MEDAL HAARLEM OIL CAPSULES

The world's standard remedy for kidney, liver, bladder and uric acid troubles—the National Remedy of Holland since 1696. Three sizes, all druggists.

Look for the name Gold Medal on every box and accept no imitation

PILES of the most stubborn kind relieved in 3 to 10 days. One trial convinces. MIRO AT ALL DRUGGISTS

CLIENT "SPILLED THE BEANS"

Altogether Too Truthful in Answering Question Put to Him by His Own Attorney.

"Were I giving advice to a young lawyer," said an attorney the other day, "I would advise him to be careful about placing his client on the stand. It is at least as well to know what he is likely to answer to his attorney's leading questions. Some time ago," [illegible]

Making It Even.

Spain has adopted a special tax on bachelors. If they really want to even things up, what they ought to do is take the bachelors' pay envelopes and leave them three dollars a week for lunches and car fare.

Giving Him His Chance.

He—I would die for you.
She—Well, what are you waiting for?—Boston Transcript.

He Ought to Be Mobbed.

An old bachelor says, there is but one thing sweeter than love's young dream, and that is to wake up and find yourself single.—Boston Transcript.

The man who is dissatisfied with his work is never happy.

There is no man so bad but has a secret respect for the good.

Testing Mother's Sympathy.

"Mother," said little George, "don't you feel sorry for that poor little dog? He looks hungry."

"Yes," said his mother, "get him a plate of food."

After George had fed him he said: "Mother, do you feel sorry enough to let him stay all night?"

Don't be fanatical. It is a form of insanity.

Are your nerves sound?

HEALTH authorities agree that children should let coffee and tea alone, that their nerves may be kept free from the caffeine drug disturbance, and grow up in natural health.

Isn't this suggestion good for you, too?

There's charm for all and harm for none in Postum, that satisfying, wholesome cereal beverage which contains nothing to disturb nerves or digestion. Make the test today.

Postum for Health
"There's a Reason"

Made by Postum Cereal Company, Inc. Battle Creek, Michigan.