MANAGING RAILROADS people. One thousand militons of dollars were paid out last year by the railways were paid out last year by the railways

INTERESTING DISCUSSION OF A BIG SUBJECT.

Hon. M. E. Ingalls, President of the Big Four Railroad, Presents Some Important Facts That Will Interest All.

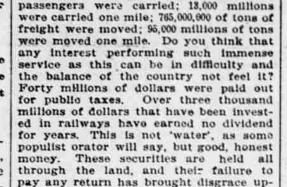
Hcn. M. E. Ingalls, one of the greatest authorities on rallway matters, read a highly valuable paper at the recent convention of rallway commissloners held in Washington, D. C. His wise words will be read with interest by all. The convention was called for the purpose of considering questions of great interest both to the railways and the people of the United States. Members of the Association of American Railway Accounting Officers were also present and were invited to take part | ings will agree with me that it has been in the discussion. Chas. J. Lindley of Illinois, was chairman of the convention. Ohio was represented by Railroad Commissioner R. S. Kahler and Chief Clerk Ed H. Archer. P. A. Hewitt, auditor of the Big Four, was one of the railway accountants present. Mr. Ingalls' address is here given as being a semi-official expression of the views held by railway managers generally, who desires to be honest and law-abiding and as being also of general interest to the public at large:

"Mr. Chairman and Gentlemen: I am very much obliged for this opportunity of addressing you. I understand I have in my audience the members of the interstate commerce commission and the gentlemen composing the various rallway



HON. M. D. INGALLS, PRESIDENT OF THE "BIG FOUR."

commissions of the different states. It is a body that is supposed to stand as an arbiter between railroads and the people, as a friend of both; a body that ought to and does have great influence, and espece to legislation regain cially in refer



from their earnings to employes of man-

ufactories in this country; 511,000,000 of

on us abroad and suffering and want in many a family and community at home. . . "One of the chief difficulties with the law as it stands today is that the punishment for private contracts and rebates is entirely out of proportion to the offense. The imprisonment clause was put in as an amendment to the interstate commerce law, and I believe the commission and everyone who has watched its worka failure; more than a failure, that it has caused perhaps more demoralization than anything else. The public has not believed in it; it has been impossible to secure conviction; it has prevented the

railway official who desired to be honest from complaining of his competitor whom he thought was dishonest. In fact, it has been what every law is that is not.supported by public sentiment-a fallure. What, in fact, is the manner of conducting business today? The railway official sees traffic leave his line and finds the freight that he was carrying hauled to

the warehouse of his rival, the earnings of his line decreasing and complaints from the management of loss of earnings, and in the distance he sees looming up the loss of his position. At the same time, the shipper who desires to obey the law sees some rival selling merchandise to his customers at prices he cannot meet, and he knows very well that he is securing concessions from some railway to enable him to do this. The railway agent and the shipper who wish to obey the law sit down together and look it over. What relief is there for them? They can complain of their rivals, possibly convict them under the interstate commerce law and send them to the penitentiary, but such action would bring down upon them the condemnation of the public and would ruin their business; for, as I stated before, the public does not believe in this severe feature of the law, and will not support anyone who enforces it. The result is, these men, in despair, are driven to do just what their opponents are doing-they become lawbreakers themselves. I have drawn no fancy picture: it is what is occurring every day

around you.

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"Is it wise, is it broad statesmanship, to leave a business as largo as that of the railways-one in which one-fifth, at least, of our population is engaged, one which affects the comfort and happiness of nine-tenths of the people-is it wise to leave it outside of the law? It is said that the most expensive occupation to the community is that of the burglar, he has to spend so much time and destroy so much to get so little. Is it worth while to force the great railway interests of the country into the same position "Who opposes this legislation? First, certain people who desire the government to own and operate the railways. Second, others who wish that the interstate railway commission should make all rates. Third and lastly, certain rallway managers who are opposed to any and all legislation and who object to any control, and believe that they should be left entirely alone.



Photographs Can Be Taken of an Enemy's Works While the Kite is Suspended.

ture are plain.

naval circles.

waved from the summit of a hill. Add

Experimenta with kites at Governor's

island in New York harbor have con-

clusively proven that it is possible to

send up a camera from inside the lines

of one army-the camera being at-

tached to a kite-and take an accurate

photograph of the intrenchments or po-

sition of the enemy thereby, and to

learn in fairly accurate fashion of their

number. On several occasions this

year in New York photographs have

been taken of parades in this fashion.

and with the very best possible re-

sults. To suggest that this could be

done fifteen months ago would have

provoked derision. There is just as

much reason for not regarding the

telephonic kite flying experiment with

credulity as there would have been for

decrying the other. The results of the

English experiment, even though they

have just become known, have already

created no little talk in United States

Smokeless Fires.

London Times has given some partic-

ulars of a new invention by one Carl

Wegener, which has for its object the

elimination of smoke from a furnace,

accompanied by a notable saving in

the consumption of coal. The success

of the system depends upon feeding

the furnace with powdered coal, in-

stead of the "well-screened" lumps

which hitherto have been regarded as

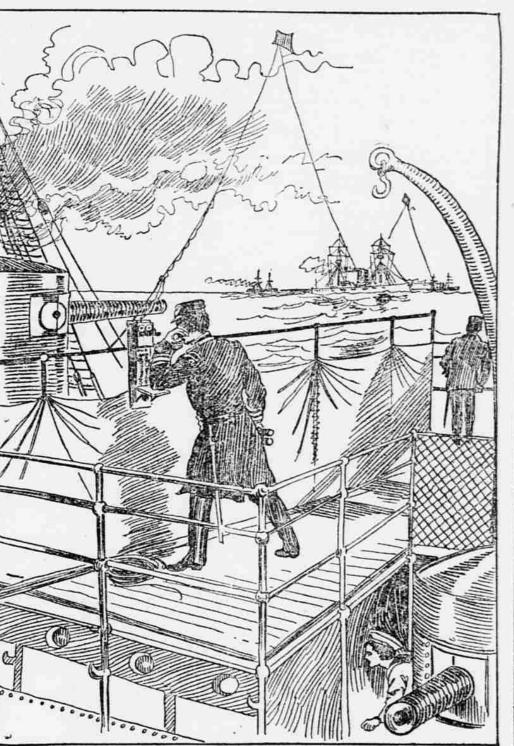
the most advantageous form of such

The Berlin correspondent of the

Communication from war ship to | siderable height than one which may warship will soon be as easy as carry- float at the top of the mainmast, or be ing on a conversation between two military posts on land, and by the to these facts this latest development, same electrical means, the telephone. the kite as a telephone wire carrier, The English naval authorities have and the indications of a limitless fujust tested with great success a suggested novelty in the way of cummunication at sea which promises to render obsolete the present methods of signaling.

Commander R. G. O. Tupper of the Royal Navy experimented with a "kite telephone." The kite used was of the regulation sort, except that it was minus a tail. It was six feet long and three feet wide at the broadest point. In place of the tail the kite carried two lines, one of which was retained on board the Daring, the instructional torpedo boat destroyer, from which the experiments were conducted. With the wind between the two lines referred to it was found that the kite was so easily managed that it was no trick at all to drop letters or even a hawser into another ship, and in this way establish communication. 2 COL CUT

Following this experiment came one with a wire. The end of the wire which the kite bore away from the ship was dropped upon the deck of H. M. S. Dauntless, where it was secured by the electrician of the ship and attached to a telephone apparatus in waiting. The other end, which had remained aboard the Daring, was also attached to a telephone, and as soon as the task was completed the two ships were in perfect communication. The kite remained suspended, secured by two lines, for more than four hours, during which the communication between the Daring and the Dauntless was uninterrupted.



PRIVATEERING.

If Spain, in her puny wrath, permits that unbusinesslike and unjust form of warfare known as privateering, the consensus of opinion among the powers is that she will get altogether the worst of the bargain. م رو الانتظار

A first-class privateering equipment is rather an expensive affair in the first my brother. Teacher-Does your brobe run and such danger of capture and demolition that the chances are as don't believe he's washed his face about fifty to one that the offender since he got it.-Truth. would be brought up with a round turn,

stripped of the munitions and ensigns of warfare and popped into prison, there to ruminate on the vicissitudes of human affairs and the changes that have taken place since the days when Captain Kidd made his record and when thousands of bold and adventurous spirits manned ships, cracked skulls, cut off heads, meanwhile lustily shouting the old song, "Full many a year, a pirate bold, I've sailed the Spanish main."

A Spanish privateer must be extremely well posted in these days to successfully carry out his nefarious enterprise. He will need not only a small arsenal at his belt, but a certified | hercafter, will you? - Chicago Tribbill of lading to give him information une. as to the articles he seeks, and whether they are American or belonging to some other tribe or nation.

Of the enormous amount of foreign goods brought to this country but a large to supply a multiplicity of burnmere trifle comes in American bottoms. Jers and located wherever desired Time For example: "In January, out of a usual gas holder telescopically co-stotal value of imports of \$59,825,721, nected with a water tank and values American bottoms carried only \$8,711,. and valve gearing are dispensed with 593, and out of exports valued at \$106 .- and the flow of water and gas auto-753,524, only \$5,155,544 in value were matically regulated by hydrostatic taken out under the American flag. Harge of Prairie City is the inventor The figures for February tell the same story, for out of a total importation phenomena of thunder and lightning of \$53,113,726, American ships brought mounted on a portable platform genonly \$9,270,058, and of exportations of erates and stores static electricity in \$93,217,202, only \$4,442,327 was under an artificial cloud suspended above our flag. Of the exports in February the platform in such a manner that when a minature building is placed carried in American bottoms only \$1.- on the platform visible rig-mg cur-029,066 were to Europe and Asia, and rents will leap from the cloud and the imports so carried from those con- make splinters fly from the building tinents were valued at \$4.339.184. The as sharp reports in imitation of European and Asiatic countries with thunder shock the ears of the beholdwhom the largest trade was carried on under the American flag are France, the United Kingdom, China and British East Indies and Japan."

Our waters are full of foreign craft that find it to their advantage to bring in all sorts of wares to our shored and take back such articles as their

An expedition has just left Stockholm for Eastern Siberia in search of Mr. Andree and his companions. The expedition consists of Mr. Stadling, the polar explorer; Dr. Nilson, the botanist, and Mr. Frankel, and engineer, one of whose brothers is a member of the Andree exploring party. Teacher (to a scholar with a very dirty face)-Jimmy, I think you are just about as dirty as any boy in the city. Jimmy-You'd ought to see place, and there are so many risks to ther have a dirty face oftener than you do? Jimmy-Well, mother says she

A Valuable Dictionary.

Datiy Inter Ocean, Chicago: "Every promise made by the publishers has been fully redeemed. It is, indeed, a grand book. . . . That there is a drift conservative yet real toward the simpler forms of spelling has been recognized throughout the work .. -See display advertisement of how to obtain the Standard Dictionary by making a small payment down, the remainder in installments.

"There is nothing more healthful and neurishing," said Mr. Skinnphlint to his wife, as he looked over his morning paper-borrowed-and moted the price of wheat, "than good cornbread. See that we have more of it

Important fows Inventions.

Among the subjects of recent applirations for patents prepared by us is an acetyline gas generator that may w be small and used as a hand lamp or pressure and gas pressure. D. D. An apparatus for illustrating the er. W. Bodd and A. D. Struthers of Des Molnes, inventors.

Valable information about obtaining, valuing and selling patents sent free to any addr

THOMAS G. & J. HALPH ORWIG. Solicitors of Palents owa Patent Office, Des Moines, Iowa May 11 1898.

ing railroads. If this audience should agree upon any legislation in that respect that was needed, I presume there would be no difficulty in inducing yonder congress to enact it into law, and believing as I do that it is essential to the public interest to secure legislation, I am pleased to have this opportunity of presenting my views and endeavoring to enlist you in the reforms which I think are so vital. We have reached a crisis in railway management when something must be done if we would avoid disaster, not alone to the railways, but to the material interests of our country.

"For 30 years a contest has been waged in legislatures, in congress, and before the courts, by the people on one side who believed that railways were public corporations and subject to control by the power that created them; and, on the other hand, by officials of the railways, who did not believe that such control was legal or practicable. State after state asserted its right. These rights were contested from one court to another, and decided from time to time always in favor of the people, under certain restrictions. It finally culminated in 1887 in the enactment of the interstate commerce law, and since then there has been hardly a day when some provision of that law was not under consideration by the courts or by congress, until now we may state it is as fairly settled by the highest courts in the land that the legislatures of the states have control over railways with reference to their local business, subject to certain conditions, and that the congress of the United States has the power to regulate interstate business. The supreme court of the United States, which is the highest arbiter of these differences, has just decided that such control of the states, or regulation, must be reasonable, and that rates cannot be reduced below a profit where the railroads can earn their expenses and a fair return upon their cost.

"Railway managers had accepted the situation, and were endeavoring to obey the interstate commerce law and adapt their management to it when, in March, 1897, a decision was rendered by the supreme court which produced chaos and destroyed all agreements. It was practically that the Sherman anti-trust law, so-called, which it had not been supposed applied to railways, did apply to them, and under the construction of that law by the court it was practically impossible to make any agreements or arangements for the maintenance of tariffs. In the case brought against the Joint Traffic association in New York, this view has been combated by the railways and it may be modified by the courts.

"It is well, perhaps, that we should look the situation fairly in the face, and while I do not care to be an alarmist, I feel bound to describe plainly to you the condition today, so that you may understand the necessity for action. Never in the history of railways have tariffs been so little respected as today. Private arrangements and understandings are more plentiful than regular rates. The larger shippers, the irresponsible shippers, are obtaining advantages which must sooner or later prove the ruin of the smaller and more conservative traders, and in the end will break up many of the commercial houses in this country and ruin the railways. A madness seems to have seized upon some railway managers, and a large portion of the freights of the country is being carried at prices far begood; their physical condition has been the future will have great promise for

"All of us who have any interest in our country, who desire its prosperity, are interested in the solution of this great question. It is not a time for the demagogue to howl about corporations. It is not a time to talk about the wrongdoings of railway managers. There are always some, in any business, who will not do right, and there always will be, but the great mass of railway managers to-day, I assure you, are as honestly seeking a solution of this question as are you or any member of the legislative body. I believe I voice the belief of a very large majority of them that the two provisions I have mentioned are necessary and will lead to the settlement of this question. If this body will join and heartily indorse this course and work for it, its accomplishment can be attained. We have unwittingly in this country applied to railway laws that it was never intended should be applied to transportation companies of this nature. We have gone back and taken decisions that were wise a hundred years ago, when civilization was in its infancy and when the masses needed certain protection, and have endeavored to apply these same principles to the great transportation intcrests of modern times. The courts, unfortunately, have followed in that line. Every business man, every statesman, knows that it is a mistake, that we have here an immense interest such as the world has never seen, and the principles which should govern it must be worked

out in harmony with the age and the needs of this country. There should be no friction between the interstate commerce commission and the railways; there should be none between the state commissions and the railways. There has been too much of a feeling with these bodies that the railways were against



P. A. HEWETT.

is hoped that the new system will have them. In the contest with railways, in low cost. Other than the maintenance of pleaded his cause in person, and knowtime to time, and often avoid what is the courts, the commissioners have drifta rapid development. tariffs the condition of the railways is ed away somewhat from the ground now considered necessary boat service. ing the customs of the country, won they ought to stand on; that is, they his case. The victory cost him three It might be thought that the flying of improved; their trains are well managed, should be the friends of the railways in-Facts About Vaccination. and the public is well served. If a way days of trouble and expense, so that a kite under these circumstances would stead of their enemies, and should aid can be found by which tariffs can be A pamphlet entiled "Facts About be a matter of extreme difficulty, but in securing the proper legislation, and the when the judge congratulated him on maintained and the practice of secret re-Smallpox and Vaccination" has been railways, in turn, should give their supkite flying under the latest methods his success, he replied: "Yes, that's bates and private contracts discontinued, port to make such legislation effective, I issued by the council of the British has become a science. What used to all right; but it has cost me three days, believe it can be done in no better way railway investors, railway employes and Medical association, giving statistics be a schoolboy's sport has now become | and time is money. I am a busy man, than by the true method I have pointed the public generally. And here I wish to a subject of study by professional mer. | and these three days are lost forever." as to the efficacy of vaccination and out. First, the change of the criminal say that this is not a question which section; second, authority to contract and and it seems quite likely that before "Oh, you English!" answered the showing what the diminution of morconcerns railway investors alone. If it was, you might say, 'let them fight it divide business. Either one of them long even greater results will be ob- judge; "you are always saying that | tality has been since the time of Jenout.' It concerns over and above everywould be of great advantage, but we taine dthan has ever been the case at time is money. How are you to get ier. Facts are quoted from the statisought to have both. There also should one else, the great public. One-fifth of be such legislation as will give more your three days back? I will tell you. tics also of other countries, as, for in-Portsmouth. our people are interested directly in GULATE THE stance, of Prussia, where rigidly enforce to the recommendations and orders railways, either as employes or employes As a means of signaling, the kite is Take them out of next week; surely of the interstate commerce commissionof manufactories that are engaged in furforced and systematic vaccination has there are plenty more days to come!" Pleasant, Palatable, Potent, Taste tlood Good, Never Sicken, Weaken, or Gripe, 10c, 20c firmly believed, not only by naval offiers. Instead of trying to break down the nishing supplies to the railways. Can practically stamped out smallpox, the cers, but those of the army, to be commission the railway officials should any body politic presper if one-fifth of ... CURE CONSTIPATION. The University of Calcutta is said mortality being seven per 1,000,000, fraught with great importance when its number is engaged in a business that try to build it up, should make the com-Storling Remedy Company, Chicago, Muntreal, Now York, Vill is losing money? The railways serve the mission its aid and use it as a bulwark whereas in the adjoining country of the future is considered. It is, of to be the largest educational corporapublic in so many ways that their prosof strength in congress and in the states course, very much easier for a signal tion in the world. It examines more Austria, where vaccination is not com-NO-TO-BAC Sold and sugranteed by all drugs perity is closely interwoven with the to beat back the tide of populism that is pulsory, it is over 450. to be seen that is elevated to a con- than 10,000 students annually. prosperity and comfort of the ordinary rising continually against them.

TELEPHONING BY MEANS OF KITES BETWEEN SHIPS.

what electricians of the navy, of both England and the United States, have long held to be possible. They have declared that there was no reason why communication of this sort should not be established between ships a few hundred feet apart, if the weather were at all pleasant. Of course, in a gale it would be impracticable.

the officers of the Daring and the Dauntless had another valuable result. It showed that it is possible to arrange for a new system of signals from one ship to another that would be greatly superior to any flag system which could be conceived. If the telephone wire can be arranged in this manner, there is no reason why telegraphic communication can not be made in a similar fashion. In this case an operator aboard the flagship could carry on a conversation with his fellow-operator aboard one of the fleet without difficulty. The admiral's orders could be easily transmitted from

The achievement is only evidence of fuel. The coal dust is fed into the fire from a container in front by means of a tube which terminates in a revolving sieve. This sieve is kept in motion by the draught, and has the effect of scattering the fuel over the furnace in such a way that it is at once inflamed without smoke and with very little ash. Coal of comparatively low quality can be economically used in The experiment that was made by this powdered form, and the only drawback to the process seems to be the necessity for using a separate ma-

chine for the grinding of the coal to powder. On the other hand, the slack or dust which forms a necessary byhere a field for employment which will be much appreciated by owners of mines and merchants generally.

More Days to Come. In Spain the people take no note of time, not even from its loss. Everything is to be done manana, tomorrow. A wealthy Englishman, who had long lived in Spain, had a lawsuit. He

has been something enormous. Of a personally conducted tour" trade demands. The trade with Cuba course, this is largely cut off. In 1892. did you have for manager usually Cuban imports and exports were valued Mr. Meeke: "My wife,"-New York at nearly \$100,000,000. In 1896, the Weekly. trade had dropped off about one-half; the present year's business shows a still further reduction. This Cuban trade was largely done with American vessels. Of course, everything American being now barred, recourse must be had to foreign handling for whatever we may receive from Cuba during the continuance of the war.

The best authorities are of the opinion that if Spain undertakes to sift out goods intended for the American trade, from the great bulk of commercial products, she will find that she has a greater job than she bargained for.

Domestic trade, that is, the coast trade, she cannot possibly interfere with. In the event of any attempt to do so, all articles can be put upon the railways. In January, 1898, merchandise actually handled by railroad cars and land vehicles amounted to nearly \$6,000,000. The transportation by water was something over \$5,000,-000. The shipments were made by land to Mexico and by way of the Canadian Pacific railroad.

It would be the work of a very short time in case privateering became annoving to transfer to foreign shipping whatever goods Americans desired to handle. It is, therefore, easy to see that Spain is reckoning without her host, and in the event of her becoming particularly insistent or saucy and interfering with foreign vessels, she would be quite likely to receive a rebuke that would, to say the least, convey a lasting impression.

Wireless Telegraphy.

In the attempt to turn "wireless telegraphy"to practical account and make it a commercial success, Mr.W.J. Clarke of New York has produced an apparatus for sending and receiving telegraphic signals without wires, which is to be placed upon the market. Where product of the coal industry will find | for any reason it is desired not to use Morse signals, a special receiver is provided, which is furnished either with a vibrating bell, or with an incandescent lamp, the latter enabling the person who receives the message to read it visually. Inasmuch as Marconi's experiments have shown that telegraphic signals can already be sent ten miles, or more, without wires, it

Giobetrolle: "Idd color treation in 3.5 m Meche: "Often." Globetrotle: "Whom

No-To-Elge for Fifty Cents. Guaranteed tobarro habis cure, makes weak men strong, blood pure 50: 81 All druncists

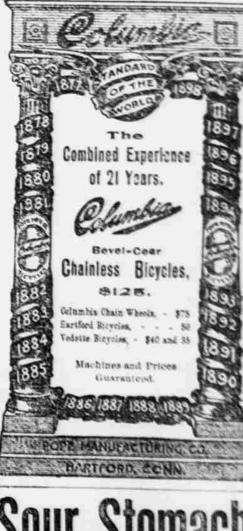
If silence is golden all deaf and dumb persons ought to be millionaires.

What You Get

When You Buy Medicine is a Marter of Creat Importance.

Do you get that which has the power to eradicate from your blood all poisonous taints and thus remove the cause of disease? Do you buy HOOD'S Sarsapartilla and only Hood's? If you do, you may take it with the utmost confidence that it will do you good. Remember Hood's Sarsaparilla Is America's Greatest Medicine, \$1; six for \$5.

Hood's Phils cure indigestion. 10 cents.





"After I was induced to try RETS, I will never be without them in the bay My liver was in a very bad shape, and my head ached and I had stomach trouble. Now since tak ing Cascarets, I feel flue. My wife has also used a with beneficial results for sour stomach. JOS. KREHLING, hell Congress St., St. Louis, Mo.

