MONO-RAIL SYSTEM TO REVOLUTIONIZE RAILROAD TRAVEL

May Relegate Steam Locomotives and Heavy Coaches to the Scrap Heap.

GIANTS ARE FINANCIAL INTERESTED

Men of Millions Stand Ready to Test Practicability of Scheme of Howard Hansel Tunis-Speed of 150 Miles an Hour Is Among **Promises Made.**

years, has been mystifying and amusing persons living near his father's

home at Windsor Hill, just outside of single rail railroad that he has constructed.

Recently all the newspapers in the nouncement that John H. Starin, who enterprises; Charles Stewart Smith existing corporation. and Woodbury Langdon, all members of the Rapid Transit commission, were to back a company which will build this young engineer's single rail railroad from Jersey City to Newark.

Formal announcement of the incorporation of the new "mono-road" company is expected soon to be made in Trenton, and this, it is announced, is to be followed in the next four or five weeks by the announcement of a deal by which the new company has acquired a franchise and terminal sites in the two cities-rights presumably owned by some existing company. Inside of a year, it is promised, monorail trains will be skimming across the marshes from Jersey City to Newark, realizing the newest slogan in modern rapid transit:

"To Newark in ten minutes."

Idea Is Revolutionary. If what the young Baltimore engineer confidently claims for his "mono-road" be true-and he has convinced such hard-headed business men as Starin, Langdon and Smith that it is true-modern railroading will be revolutionized by his invention. It are in practical operation in England, will relegate to the scrap heap the Ireland, Germany and Austria-Huntwo-track railroad, the ponderous, coal- gary, and others of which are seeking eating locomotive and the big, heavy a foothold. It is entirely unlike the eight-wheeled cars along with the system, for instance, for which F. B. stage coach and the paddle-wheeled Behr, an Englishman, has been seeksteamboat. His new invention, if his ing a franchise between Atlantic

New York .- A young mechanical en- | makes possible and because of the gineer, for a little more than three vastly diminished cost of building and operation.

Negotiations are under way to obtain the rights needed before building Baltimore, by his experiments with a of the track can be begun and, although secrecy is maintained on this point and the precise route selected is closely guarded, it is understood that city contained the authoritative an- the backers of the company are negotiating for franchise rights and terhas made millions in transportation minal sites already possessed by an

Easy to Lay Tracks.

According to an interview printed in the Newark newspapers, the linking of the new "mono-rail" line with the McAdoo tunnel is a possibility. Bion L. Burrows says that it would be a matter of the greatest ease to run the trains from the "mono-rail" road right into and through the McAdoo tunnel without interfering with the operation of trains over the two rail line. All that would be necessary would be the laving of a single rail between the two rails, and the installation of the necessary overhead rails to preserve the equilibrium of the "mono-rail" trains. If this is done, it is asserted, passengers can be carried from Newark to the heart of Manhattan in ten minutes. That he is willing to enter into an operating agreement with the "mono-rail" company, William Mc-Adoo, head of the tunnel company, is quoted as saying.

This new "mono-rail" system, invented by the young Baltimorian, is totally different from the various other "mono-rail" systems, some of which claims are well founded, is as far Ferry, Brooklyn and Coney island. On

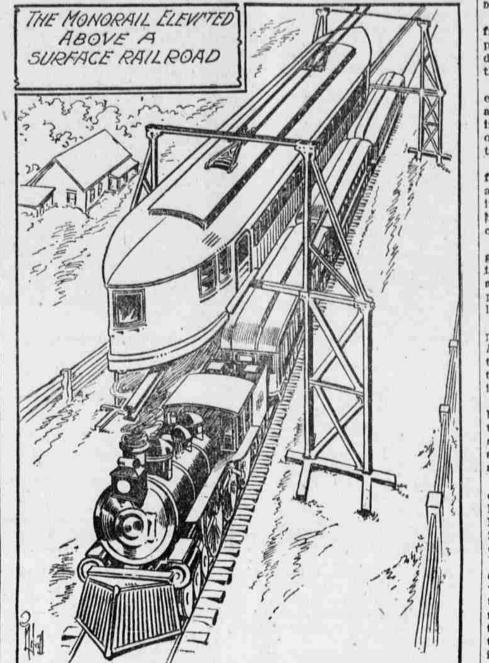
ment which constitutes the distinctive complete the eclipse of the present feature of the invention of the young system of rallroad construction and Baltimore man, and marks its greatest establish the "mono-rail" as pre-emdifference from the other "mono-rail" inent, still another tremendous adinventions. The overhead truck arvantage is claimed, and this is the rangement, with the four wheels, horimost important of all-the matter of zontally set and working on the inside cost. of the overhead tracks, steadies the It is the cheapness of the cost of

car and gives it its equilibrium. Powthe system, which, if it is what is er is also transmitted from these overclaimed for it, threatens to revoluhead wires for the operation of the tionize railroad construction. CATS.

Means Immense Saving. One of the claims made for the According to the estimates made Tunis "mono-rail" is that trains running on it will be practically noiseless. for the New York backers of the One reason given for this is that the project, a four-track, elevated line, guide wheels on top, which run in the such as it is proposed to build beoverhead rails, are of cast iron, oak tween Jersey City and Newark, can and leather and are so constructed as be constructed for \$75,000 per mile. to make but little noise. They also To build a four-track elevated road, have ball-bearings and this makes tre- similar to the present elevated system mendous speed possible. The guide in this city, would cost \$900,000 per wheels are only eight inches in mile. This does not include the cost diameter and less than two inches of power or equipment-only the

thick. Another feature of the car structure and tracks. which contributes to its noiselessness is the use of the direct current motor. Engineer Tunis claims that the only miles of elevated track between Jerproper system of railroad construct sey City and Newark for \$2,000,000. tion is the single track, because the To build the ordinary type of elevated double tracks are in opposition to the road, with four tracks, would cost belaws of gravity, and make necessary tween \$7,000,000 and \$8,000,000. tremendously heavy cars.

In his cars, Tunis explains, the bottom will be but 20 inches above the to hope that they will reap tremenrail, and thus the center of gravity dous profits, and that the success of will be very low. The cars will have this initial road between the two Jeran almost perfect equilibrium, even 'sey cities will be followed quickly by





NEWS NOTES OF INTEREST FROM VARIOUS SECTIONS.

ALL SUBJECTS TOUCHED UPON

Religious, Social, Agricultural, Polit-Ical and Other Matters Given Due Consideration.

Harvert hands in Gage county are getting \$2.50 per day and board. James Baxter and Robert Corby have been lodged in jail at Blooming-Former Governor Mickey has decided to return to Osceola, which place was his home before he was elected governor.

Soellner Bros'. Clothing and furnishing store at Scotts Bluffs, was almost destroyed by fire. The stock was valued at over \$10,000.

The Carroll Lumber and Grain company has filed its articles of incorporation with Secretary of State Jenkin. The capital stock is \$50,000.

Seventeen new members were recelved into the Presbyterian church at Lyons on Sunday, three of them being received by letter and fourteen on confession of faith.

Treasurer Brian has received word from eighteen banks which refuse to pay the 3 per cent interest on state deposits and he is now withdrawing the state money from these banks,

The Primrose Record scores farmers and others who drive into town and hitch their horses in the scorching hot sun, leaving the animals without shade or water for hours at a time.

Frank Sohlegter, proprietor of a fruit stand at Hastings was seriously and perhaps fatally injured by falling into the elevator shaft of a wholesale house, where he had gone to place an order.

State Superintendent McBrien has gone to Los Angeles to attend the National Education association meeting, at which he is to appear twice on the program. He expects to be gone at least ten days.

Peace reigns again at the brick plant in Humboldt and the machinery hs again running at full blast. Prac tically all of the strikers have been taken back on application and are filling their old places.

Monday morning William Vandeberg, of Nebraska City, who was sent to the asylum some time ago as a dipsomaniac, was taken to Lincoln again. as he had violated his parole. He is a resident of Talmage.

Alexander Maril, a Bohemian farmer who lived near Morse Bluff, lost his life on the Superior line of the Northwestern when freight train No. 204 ran over him. Maril was asleep on the track. He had been drinking. At a mass meeting of the citizens and business men of Beatrice it was voted to hold a three days' celebration and trade carnival in commemoration of the fifteenth anniversary of the founding of the city of Beatrice. ton, charged with criminally assault ing Miss Mary Koehn. The story of the alleged crime as related by a younger brother of the victim, is that one of the men held him while the other bound and gagged his sister and then committed the crime with which they are charged.

MURDERER ON THE STAND.

Slayer of Brother and Sister in-Law Tella His Story.

Lincoln-A self-confessed murderer on the stand explaining his own emolional insanity and reviewing his own feelings when tempted to murder was the strange situation in the district court of Lancaster county, Frank Barker, who killed his brother and his brother's wife two years ago in Webster county, was called to the witness stand and made to tell the story of his crime. He did this caimly and without any hesitation or display of feeling.

The first questions addressed to Barker were intended to show that a tendency toward insanity is hereditary in his family. He told of the sick, dizzy headaches with which his mother used to suffer and of her early death. The fact that his brother murdered his sweetheart, her mother and daughter and then killed himself was brought out.

On the night of the murder Barker said that he attended church, after which he took his sweetheart home. Then he went to his father's home. on the way meeting his brother Dan and resisting a desire to kill him. Later he drove to his brother Dan's farm, put his team away in the barn, entered the house and shot his brother. Barker declares that he remembers only the shooting of his brother and related his surprise when, on awaking in his bed next, morning with his clothes on, he went down stairs and found his sister-in-law also lying dead on the floor. He left the bodies there all day, he said, and occupied himself with the usual chores about the place, but that night he dug a hole in the cattle shed carried the two bodies out, threw them in and covered them up. When asked why he denied all knowledge of the murder until the bodies were found, Barker said that he did not know. During the cross examination Attorney Blackledge tried to show that there was sufficient motive for a same man to commit the crime, but Judge Hamer, Barker's attorney, met nearly every question with objections, declaring that they did not care to try the old case over again. Many of the objections were sustained. When asked to tell of any peculiar experience, Barker told of ais inability to find his way home once when he was herding sheep a quarter of a mile from the house. Another time he was unable to make a lister work waen planting corn, but when he returned to it after a few hours absence, he could manage it perfectly.

CHEA ' SUPPLIES FOR STATE.

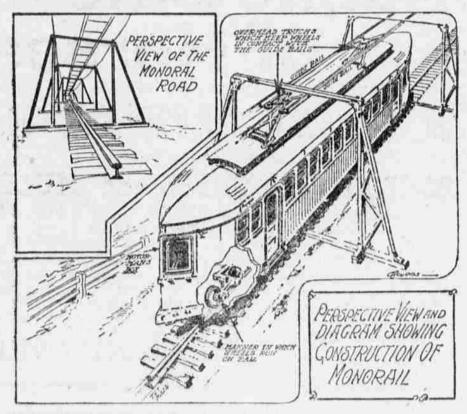
Board of Purchase Adopts New Method of Doing Business.

Lincoln-The plan adopted by the State Board of Purchase and Supplies to buy supplies for the state institutions from dealers having the lowest bid on the individual items, rather than sticking to the old plan of giving the bldder with the lowest total the entire contract for an institution, has proven entirely satisfactory to the state board at least. At the recent letting more than a few thousand dollars was saved. While it is impossible at this time to figure just what amount was saved, reference to a few items shows that the saving was a large sum. On one item alone there was a difference of \$308, and the highest bid on the item was only \$600. This was for apricots for a state institution. The highest bid was \$600 and the lowest \$292. The total bids made by these two firms were very close together. On twenty five items the difference was from \$2 to \$3, and on fifty items, in some instances, the difference was \$14 and

ahead of the locomotive-drawn train. Mr. Behr's road the cars "straddle" running on two tracks, as the flying machine is ahead of the balloon.

That trains will run easily at a speed of 150 miles an hour on a single which the cars hang suspended. In rail in perfect safety, without vibration and the swinging side-wise motion of the present day railroad trains. and that tracks and cars can be built plan, however, differs radically from and operated at less than half the cost ¹ all of these, and is, according to his

single triangular rail. In Germany the "mono-rail" system which has been successfully operated is one from Ireland there is a system in operation very similar to the Behr system. The young Baltimore engineer's



far to build.

of the present equipment-this, in | claims, safer, faster and cheaper by brief, is the young engineer's claim.

That he can do what he says is not Construction Details. only believed by a practical transportation man of 40 years' experience like John H. Starin but by a big firm in Wall street which has agreed to underwrite all the bonds required to put through the Jersey City to Newark "mono-road," and by scores of others who have investigated the new plant and are anxious to become financially interested in it.

First Practical Test.

Starting on a short half-mile stretch of track inside the exposition grounds at Jamestown, the first practical test of the new road was made in public, although for three years the young inventor, Howard Hansel Tunis, has been experimenting in the suburbs of Baltimore.

More than a dozen noted engineers. among them Chief Engineer George S. Rice, of the Rapid Transit commission, have investigated the new invention and have pronounced it practical. Some of them assert that & will revolutionize modern railroading because of the tremendous speed which it !

The single track is laid across ties about three and a half feet in length -the same sort of ties used in the construction of the present day tworail tracks, except that they are shorter. Sixty-pound rails instead of the standard 100-pound rails are used. Overhead, 30 inches apart, are sus-

on the inside. These overhead ralls and connected by steel beams stretched across the track.

On top of each car at both ends is

Mself to the curves.

head arrangement. Cars Will Be Light.

Then, the cars are to be extremely light as compared with modern railroad cars-another element contributing to high speed. They will not weigh over seven tons.

Right here, in the two points just referred to, is the great advantage claimed by the backers of Engineer Tunis's system. Mr. Burrows in describing its advantages said that engineers had long recognized the fact that the great sprawling cars of the present, with their immense weight, are theoretically wrong. .

"These big heavy cars are in effect houses set upon wheels," he said. These wheels are placed four feet eight and one-half inches apart, with lightness of the cars makes it possible the center of gravity between them. The first and greatest essential to the reasonable grade. whole system is that the cars must be heavy in order to remain on the tracks. Here, then, is the whole key to railroad inefficiency, that in a sys-tem whose only excuse for being is the ability to make speed the principal requisite should be great weight. In short, having to overcome gravitation, they start out by making it impossible. It requires no great mechanical ability to discover that a one-rall track is greatly superior to a two-rall track, if one goes no further than to see that one wheel will only have half the obstacles to overcome that two have."

Economy in Operation.

Still another claim for the mono-rail trains is that they can be operated very much cheaper because of the economy in power it is possible to realize. According to railroad men. from 15 to 30 per cent. of the power pended two parallel rails, Leshaped used to operate trains is lost in the sidewise, swinging motion of cars. are supported by steel pillars placed The Tunis mono-rail trains, it is deat intervals along the side of the road clared, have a straight ahead motion. without any side-swing.

Nothing which ever, moved on wheels can equal the speed claimed attached an inverted truck. This is for the Tunis "mono-rall" trains. One raised from the car by a strong steel hundred miles an hour is an easy matarm, corresponding to a trolley pole, ter, and the cars can be pushed to 150 and the four wheels attached to the miles without any difficulty. And, inverted truck fit into the "L"-shaped while the cars are going at this speed, inner surface of the overhead tracks. it is claimed that the motion is so The trucks are in the form of an X, gentle that passengers are barely with a wheel at each of the four aware of the fact that they are movpoints of the "X." The "X" is flexible, ing. The jerky, swinging motion of that the trolley companies of Noropening and closing to accommodate two-rail trains is declared to be entirely absent.

It is this overhead truck arrange.' As if all this were not enough to stricted.

without being steadied by the over- the building of similar roads all over the United States. The overhead truck system used in the Tunis system is patented.

The projectors of the new enter-

It

prise figure upon building the eight

is this cheapness of cost which in-

spires the backers of the enterprise

Much Interest Aroused.

How active interest in "mono-rail" railroads is, is shown by the fact that following the announcement of the plans to build the New Jersey line, the promoters of the company have been besieged with inquiries from persons who want to introduce the system in other places. One inquirer was a capitalist who holds the concession for a 400-mile railroad in South America, much of the route of which runs through inaccessible counpecially adapted for use in a rough country because of the fact that the

to operate the trains up almost any

To all these inquirers the promoters say they have replied that they are not in the field for the exploitation of the new system, or even for money making. Mr. Starin, the leader in the enterprise, has announced that his object is not to make money so much as to put into practical use an invention which he believes to be the coming railroad system of the future.

No Stock to Be Sold.

His hope to have a railroad which will carry people from this city to Newark in almost an inappreciable space of time, and to give an example to other railroad companies in the good treatment of employes. It is announced that no stock of the new company is to be put on the market, and that all the money that is wanted to push the enterprise will be realized by an issue of bonds at the right time. A big Wall street firm has already agreed to underwrite them.

Expert System to Be Popular.

That they ultimately expect their system to be widely introduced the promoters of the new road do not attempt to conceal. This, they expect, will speedily follow a practical demonstration of its success.

Howard Hansel Tunis, the young inventor of the system, is at Jamestown, where he is superintending the running of trains over the experimental half-mile track. Tunis wanted a much longer track, but it is said folk were too influential with the exposition management and he was re-

A report was received in Beatrice from Marysville, Kan., to the effect that the first new wheat marketed at that place tested sixty-four pounds to the bushel. Farmers in Gage county are of the opinion that there are a number of fields which will yield as high as thirty-five bushels to the acre. It is said that the big cut of the Burlington near Milford is nearing completion, and that but about seventy thousand yards of dirt yet re main to be moved on that particular try. The Tunis "mono-rail" is es. part of the work. The big steam shovels have been burrowing into this hill for a year, with the result that a great

> gash has been cut. All Nebraska dairymen have been asked by the state railway commission to attend a public hearing on August 6 when the new proposed rates on milk and cream will be discussed. The commissioners are of the opinion that the new schedule increasing the rates on cream will discriminate against the small creamery.

Herman Boche, awalting trial at Madison for murdering Frank Jarmer at Norfolk, tried to commit suicide four times during the day, but lived. Three efforts were by hanging one by battering his head against the cement floor of the jail. Earlier Boche also tried to run away while walking about the jail yard with Sheriff Clements.

A traveling man who spent Thursday and Friday along the line of the Union Pacific in Nebraska said he saw a carload of hogs turned out of a arrest here charged with the murder stock car into the yards at a little way of his wife, was admitted to bail by station, and that half of the hogs died Judge Raper in the sum of \$15,000 to from heat soon after. When they were unloaded some of the animals were almost exhausted, and they died soon after.

A. J. Anderson, pile driver foreman for the Burlington railroad, lost his life by drowning, while at work near Gibson, four miles south of Omaha. He was working on the driver and in some manner lost his footing and fell into the river.

The State Board of Equalization will meet this week to begin work of equalizing between the values of the various countles as fixed by the county assessors. So far only thirty-five countles out of the ninety have reported, but all are expected to be in within the next few days.

Resort to U. S. Court.

\$15.

Lincoln-The express companies have sought refuge in the federal court rom the threatened state supreme court injunction, commanding them to obey the Sibley rate reduction law. The express companies' cases are now on the same basis as the railway cases and will be taken up for argument in a few days. Attorneys for the corporations allege that state courts have no jurisdiction.

Prize Boozer at Taylor.

Taylor-Emory ...nyder got intoxicated July 3, drifted into a canyon southwest of Taylor and emptied six quart bottles of whisky before he came out on the morning of the 5th. Sheriff Evans has charge of him now, and will hold him for Sheriff Richardson of Custor county, who will take him to Lincoln to be treated for dipsomania.

Bail for Alleged Slayer.

Pawnee City-Ernest Frank, under appear at the October term of the distrect court. The amount of ball was readily furnished oy old neighbors of the accused.

Irrigation Case Argued.

Attorneys for the Belmont Canal company who some time ago made application for more water to be taken from the North Platte river and who argued their application before the .tate Board of Irrigation, have been notified to file briefs with the board. This company operates the Cheyenne canal and irrigates 35,000 acres of land. It was awarded 270 feet of wants 400 cubic feet. Parties down the stream filed objections to the request, as did parties at North Platte.