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Rev. J. H. WARREN, Superintendent, Central ano Northern Cala, ano Nevioa.

7 Montgomery Avenue,
Stan Orancisco, Meay 1 Hf 1888 Dewe Inuendectoward -

Car you Bneat ontolGwok, Dr Me decu-D'Denten, Hu Pawkin \& tur or three other mext Thendcay 1030 Prue, at The bilisad building: on ff Hf Avinisen de Atoatr, in tee mous of Hu Naw Dr Qaithrent-?

Au offer is nuade to the Cougreqaterealist= of take the Juanugeneat of tha new rion of hapele near Saula Barbara on nevur Mrecy S Dtore who tate it


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6:30 To 7:30 P. M.
$\angle O O \quad$ for moallusistrar strames.


Len O.O.Nomaid
Cily.
dear dir:
Or. Hannon hav
frest enoloses me witout ainy Commeit or explanation your reply t his invitalein (givin in aceordaver witt my request, to ae brov aver Angregation at Ceutenary Cheerd on ahildenon's doy m selfech of abuch Bible Classex. Ss not kinow wherter Te has siplied; so I ivill say stat me will certainly be pleased to hou you corne amb we niel see That you have time to rach your own clase apter inviching our feost. wit prounce and thaveght.

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Ing Dear Len. Howard,
of remember with great pleasure my fortunate meeting with you in ban Francisco and your timidly hospitality.

On my return to the city of find your letter of april $19^{\text {th }}$ as $t^{\circ}$ the bogswell fountain.

Before communicating with the Department of Parks, the commissioners of which have change of this matter. would you Kindly inform me whether the Statue on the ton of the Fountain is of Mr. bogsewell himself. If so, I fear it would prevent its acceptance by the city for very obviaces reasons.

With Kind regards to Ens Howard and yous son, Same Very stumpy yours, Inajor Sen. 0. O. Sfoward
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G W BALLOCH, Agent, 1006 F. Street.
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# BOYNTON'S RALLROAD 

## The Principle of the Bicycle Applied

 to Locomotives and Cars.An Experimental Train Now Being Built at Russell's Machine Shop-Probabilities that It Wil Be Set Up on the Salisbury Beach Rallroad-A New Principle of Transportation.

At the foundry and machine shop of Albert Russell \& Son is being made a locomotit ongine unitke any before made by this or any other firm. It is designed to run on the new "bicycle railway," which is the invention and idea of Hon. E. Moody Boyuton of West Newbury. Of this idea we have before spoken at length. The tracks are not both laid on the ground as we commonly see them. One is laid on the ground and the other is laid on the underside of a framework which is above and directly over the lower track. The engine and cars have wheels on the bottom and double trucks above. In this way the whole is steadied on the rail and cannot fall over nor off the track. It is expected that great speed will be attained on account of the comparative lightness of the train and also because of the loss of friction. The idea is patented in every country in Europe as well as in the United States and other nations of the Western hemisphere.
The working plans cover about eighteen sheets and are pronounced by the manufacturing firm to be the finest they have ever seen. This is not strange when we consider that they are made by Carles Carvel of Roston, the leading mechanical engineer of New England. From looking over the plans we present a general description of this novel engine. The engine is 41 feet over all, that is from the end of the cow eatcher to the rear of the tender. The engine, cab and tender are all in one solid piece. In the widest part the engine is only 44 inches wide. It has one driving wheel which is 8 feet in diameter. From the centre of this wheel to the centre of the rear trucks is 20 feet and 4 fnches. All the wheels are to be made of cast steel with heavy steel tires shrunk on. The tire will have two deep flanges so as to keep the machine from leaving the track. The cylinders will be $14 \times 12$ inches. Under the tender will be a two-wheel truck while all the overhead trucks will have two wheels. Riveted to and around the boiler will be a strong frame which will carry the for ward overhead truck of the engine. In it will be the bell, and the whole will not be so wide that it will at all obstruct the view of the engineer. Sixteen feet will measure the distance between the rafls. Already the contract for the holler has keen given. It calls for a boiler 13 feet long, 42 inches in diameter, and with 96 tubes. Bencuth the center of this the onedriver will be put. But the distance from the lower rail to the bottom of the boller not being 8 feet, the diameter of the driving wheel, there will be a depression in the centre of the length of the boiler deep enough to allow the erection of the wheel. The upper trucks have small guard trucks on each side which rest securely in powerful springs so that in case the train attempts to lean from the perpendicular it will be easily and flrmity checked.

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eq vo the form.
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by thee magic, Tray are acknowledged 85.00 box bho have tesed them to be worth 85.00 a box.

1hicy restore the complexion, bring aack the keen edge of appetite, and give renewed vigor - the entire biman frume

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Is the only vegetable substitute for that dangerous mineral, Mercury, and while its action as a curative is fully equal, it possesses none of the perilous effects.

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 port man ; and whatever of public interest attaches to his movements is always read with a good deal of pleasure here. Just now Mr. Boyston's bicycle railway system is the prevailing tope of interest among prominent railroad mien and engineers, and he is constantly receiving letters of commendation from such not only in this country, but from abroad. Among the latest is one from J. L. Bonlange, C. E., a disthingished engineer, recently from DeLesseps ${ }^{\circ}$ canal; he has been employed on national works in France and other countries, and has received the high salary of fifty thousand frances per year. His education, social and scientitle standing, are widely known and give great weight to his opinions. He writes:Hon. Eben Moody Boynton, President of Boynton
Bicycle Railroad.
Dear Sir-I have read with a serious attention and a great deal of pleasure the descriptive "memolre" presented by your patents tor the "Bicycle railway system." I have examined with great care the drawings adjoined to said memoire. 1 have come to the decision that your ingenious combination meets in every respect the wants of the ever increasing development of commerce and industry, and therefore the necessity of frequent and rapid intercourse. You have notably increased the ratio of carrying capacity to weight of trains and reduced frictions and dead weight. In one word, your system of "Bicycle railways" uniting to economy and simplicity, satety the most complete, will, I have not the least doubt, be universally adopted in a very fort time.
I am, dear sir, very truly yours.
J. L. Boulange,

Civil Engineer, formerly Engineer for the Construction of French National Rail ways, recently of the Panama Canal.
Gen. Haunt who was president of the U. S. Military Railroad Board during the war, chief engineer and general superintendent of the Pennsylvania rall road system, and later super intendent of the Northern Facile railroad symfem, needs no words of eulogy. His life work and experience would lead him to scout the possibility of a complete change expected in the rolling stock of nine hundred thousand million
 dollars worth of U. S. railroad property. The ease and economy of motion of the grooved bicycle principle applied to railways does not admit of question any more than that a wide plank turned edgewise or a similarly constructed railway carriage is many fold lighter and stronger for the same capacity. Several rallroads have been arranged for license and within a year there will bo an undoubted extension of the system in practical use. Gen. Haunt writes Mr. Boynton as follows:

## New York, Nov, 19, 1887

Hon. E. Moody Boynton:
Dear Sir-I have read your paper on the Boyston Bicycle Railroad with much interest, and although unwilling to subscribe to all tho extmates therein contained without fall and carefol calculation, yet at the same time I am not prepared to say that your expectations may not be substantially realized by an application of the proposed system. Success will depend upon the proper arrangement of details and the adJustranent of proportions to meet strains, Some experiments will also be required to determine adhesion, traction and other data for calculation.

Yours respectfully,
H. Havre, Civil Engineer.

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MEMORANDUM.


Hound



Dear General:-
I suppose you remember that you are to go to Mrs. Northup's to dimer tonight. She expects you to meet me here at half past five and come ont to her house. And you are down to lead the Noonday Prayer Meeting tomorrow as per enclosed card. You see I am using you a good deal these days.
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