car of two rapidly-revolving flywheels,

which, like the spinning top, resist be-

ing moved out of their plane of mo

tion. Louis Brennan, who is known as

the inventor of a torpedo which the

British government bought for \$550,

000, has set up an experimental rail-

way in miniature, with cars large

enough for children to rid in. Bren-

nan predicts that the future railway

carriage will be much larger-two or

three stories high, and wide in pro-

portion; that speeds will be from two

to three times greater, and that acci-

The thought occurs that if the

gyroscope should stop gyrating that

terrible disaster would occur to a

coach laden with passengers. How-

ever, the inventor says that the gyro-

erni hours after the power is lost, so

there would be plenty of time to seek

dents will be almost impossible.

SKETCHES OF NEW TRANSPORTATION VEHICLE AND PORTRAIT OF ITS INVENTOR.

The cars balance like bicycles. This | gyroscope. The cars remain erect on

is repdered possible by the use of the the rail, owing to the presence in the safety or make repairs.

railroad building-making construction one-tenth cheaper-is a new method of locomotion, the Brennan monorail system, exhibited by its inventor at the Royal Society in London. Construction will be cheapened because a wire cable will serve as a bridge, and but one track need be used.

POWER OF PULLEYS.

Pive Blocks Will Enable a Man to

Lift Sixteen Hundred Pounds. If you were commanded to lift 1,000 pounds when your normal lifting strength was equal to only 100 pounds, how would you go about it? How would you increase your strength sixteen times?

It can be done easily. Have you ever studied the effectiveness of pulleys; do you know that the average man may equal a Sampson simply by employing a rope and a few pulley blacks?

As early as the sixtenth century methods of augmenting power through pullers was demonstrated. Since then this wonderful mechanical aid has proved of vast benefit to man.

The man, then, who would reval the feats of Samson must call the humble but powerful pulley to his aid.

Of course, he can do a great deal with the lever, although he hay not, as Archimedes believed could be done, loosen old Earth from her moorings. Still, for an example of gradually but powerfully augmented strength be would turn to the pulley.

Suppose that by the use of two pulleys you were able to lift 100 pounds from the floor, and you wished to lift twice the weight. Were you to take a double block and use it above one single

block, you could lift 200 pounds. By the use of two single pulleys the load is supported by only one rope; by the use of a double puller, thus doubling the rope back on itself, its lifting power, as well as your own, is in Irishman calls to him;

If you used two double pullers, you could increase the lifting capacity to 800 pounds by doubling the lines around the bulleys. In proportion to the number of ropes supporting the load you can increase the weight

To lift 400 pounds you would merely have to double your blocks. In draw

cist, who was born in Bruges in 1548 .-Philadelphia North American.

THE MULE WAS CURED.

Drop of Forty Feet Ended His Stub-

"It was twenty years ago when I was in the building and contracting business," said the man with two watch chains, "that I took a mule as part payment of a debt. It was soon reported to me from the lumber yard that the animal was the meanest and most cuntankerous specimen of his tribe. Hitched to a wagon to one could do anything with him. If yelled at to go he would back up and stand there with his feet braced. We bothered with him for a couple of weeks and then he was labeled 'For Sale. Cheap.'

"It happened that at the time I was building a chimney for a factory. When we had run the brickwork up forty feet hig!, we got out of material and had to lay off for a few days. It was during this interval that a little Irishman in my employ came to use one day and

" Mr. Illank, do you want that mule cured of his ways?" "If it can be done,"

" Give me leave and I will either kill or cure him.

" 'Go abead. "What he did was to get help and hoist that mule to a platform on top of the chimney. The animal made no objections. When up there he gazed around as if he really enjoyed the landscape. After about five minutes the

" tier-up with ye, ye lazy, good-fornothing son of a gnn!"

"The nule total his ears back and commenced to retire his body to the rear. When he had backed three feet over he went. Those on the ground before he landed on his back on a soft

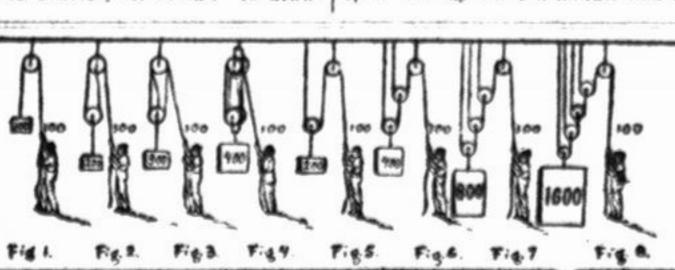


DIAGRAM ILLUSTRATING THE POWER OF PULLEYS

the weight. Were you to get above the pullers and pull upward, the weight of the rope-however slight-would figure n the calculations.

No doubt you have often seen men Efting great loads and immense boxes by means of pullers and wondered how it could be done.

In building, the pulley is one of the most valuable pieces of mechanism. While looking at skyscrapers have you not wondered how the great iron beams were lifted to the dizzy heights?

Here, again, the pulsey has done almost incredible work.

Still another way of using pulleys is to increase the number instead of doubling the winding capacity of single blocks.

By using two pulleys you will lift. possibly, 200 pounds. If you add another single pulley, you will be able to lift 600 pounds, twice the weight, without extra exertion.

By the use of four single pulleys you could lift 800 pounds, and with five pulleys 1,600 pounds.

Of course, the facility of lifting a heavy weight and the case of increasing it depends upon the hearings of the pulleys. It is important that these be delicately adjusted and well ofled. From a purely mathematical stand-

point the fine elements which enter into the facility of increasing weight without the necessity of additional lifting force are numerous. A great deal depends upon the elas-

ticity of the rope. With a stiff rope you would find much more difficulty in lifting a weight than with a flexible one. Even the friction of the rope as it glides over the pulleys must be taken nto account.

The use of pulleys was demonstrated by Bevins, a Dutch engineer and physi- | deal never expects one himself,

ing the rope a man pulls it in its oppo- he got up and began to canter about site direction from the movement of When hitched up to the wagon be want ed to pull the whole load, and from that date on he was the most industrious and ambitious male in the Stat of Ohio. We had to fairly beg of him not to kill himself with hard work. don't know how it would work in other cases, but if I was a poor man I'd go into the business of backing perverse mules off the top of forty foot chim nevs. Ten dollars a mule, and no cure no pay."-Cincinnati Enquirer.

The Life Plant. Visitors to Bermuda of cen bring back

to this country as a souvenir of their trip flie leaves of an interesting plant of the house leek family. It is known as the life plant, and when the leaves begin to shrivel and fade they send out little shoots which in turn bear leaves that continue to grow and remain fresh and green for months. The leaves are about four inches long, rich green in color and of a smooth waxen texture. If you take one of the leaves and pin It to the wall indoors, it will begin to sprout within three or four days, be it winter or summer. At first the top portion of the jenf will begin to wither and shrivel up, and this is likely to continue until the upper half has lost its green color. Then tiny white roots will sprout from the edges, and in time diminutive green leaves will appear on these. These little off shoots will sometimes grow to be an inch long and contain several pairs of leaves. The limit of their existence seems to depend upon the amount of heat and light they can obtain.-St. Louis Globe-Democrat.

things from one's own viewpoint. The an open square. All around were avia- I guess our neighbor's bens haven't man who never gives anyone a square ries, walled with wide-method wire got on to the fact they're planted ret! Office

A New York capitalist who has reently returned from a trip to the Konthe rubber business, told an inter-American extle in that far-away

YANKEE KING IN AFRICA.

Rales Over a Settlement with a Pop-

go Free State, where he is interested esting story of his meeting with an try, who is the "boss" of a small Kongo settlement, says the New York Times. After describing a visit to Buma, the capital of the Konko Free State, he continued

boat and started up the Kongo River by a first-rate graphophone and music toward the center of Africa. scepery was never monotonous. we come to high, white cliffs, now to low, sandy shore. Here were found heavy forests, whose edges ended apparently in the midstream, and there the low bush, which only half hid

treacherous swamp land "Soon we reached a station on the French shore of the Kongo and landed be buried beneath the shadow of an midst of a fairy settlement. The first center of the open square of his little thing to welcome us was a gorilla, who kingdom. turned three somersaults and then extended a hairy, long-nailed paw. At a forty-eight years ago. By a few reswinging gait the well-trained ape led marks which he dropped I imagined he us over a barren hillock to a little set- had got into some serious trouble in

forget. We walked beneath an avenue He was a man of fine physique and of carefully planted trees, and around appeared to be well educated. He had he witnessed in any other corner of jects and could speak their language the world. Neither America nor Eu- perfectly." rope can ever hope to produce such a settlement. Orange trees, heavy with fruit, scented the cool air: a great white fountain, half hidden by clouds | ret? It is so hard to keep from figuring of fluttering doves, splashed lastly in and filled with fluttering chirping - Youkers Statesman.

Occasionally, instead of birds we .ound monkeys, apes, a leopard or

Russian terrorists, it is stated, are making greater efforts than ever be-

fore to carry out their plot to blow up the Czar's palace and kill the royal

family. Dissolution of the duma has added to their hatred. The latest pic-

shown above. The heir to the throne has four sisters, the eldest 12 years

UKE ALEXIS NICHOLAIEVITCH

"The settlement had a population of some 400 Kongolese, and you can judge of my surprise when I found that a Yankee was the 'king' of the settlement. He said his name was Alexander Fisher. He had made a collection of the country's birds and animal life. so that we could see them without frou-

"The hungalow in which he lived was riean, roomy and well furnished. The well-uphoistered furniture was comfort-"With my party we took the steam- lable and dull moments were enlivened

"Mr. Fisher beamed with hospitable for. He dired us and showed us all over his settlement. The place is a trading store. Fisher said that business was dull, but he did not sigh from his fuxurious exile. He loved his birds and apes and live stock more than he loved Yankeeland and his wish was by way of a giant tree trunk in the orange tree, facing the river, in the

"He told me he was born in Texas Texas and fied the country. It's not "The sight of the place I shall never likely that Fisher is his real name, we saw signs of civilization not to complete control over his black sub-

Footing the Hone. Yeast-Any of your garden seeds up

Crimsonbeak-No; it's been so cold

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