THE SUNDAY OREGONIAN, PORTLAND, APRIL 27, 1902.

SUBWAY

2

big hotel will be located over the sta-Within the limits of this mile have oc-curred the most disastrous accidents of the subway. The dynamite explosion came first, wrecking two hotels and sev-eral houses; then, two blocks below, fol-lowed the cave-in of three houses. The Band Transit Gormitan has recently Rapid Transit Commission has recently purchased this property in order to save itself from costly damage suits. It is said that up to date \$5,000.000 have been spent by the Commission in making sim-It is ilar purchases of damaged property.

Subway's Official Photographer. "Do you see the long crack down the side of that building?" he inquired. We were standing in an excavation 60 feet below the surface of the street, and the bare wall of a building towered 150 feet above. Suppose the owners claimed that the ex- that he began to perspire when he looked | been Foxy." cavations here had caused that crack. I at the Pay-Roll, and it did seem to him. would go over my photographs taken here that a lot of big lazy Lummixes were before the work was begun at all, and I would show a picture of that building with the same crack in it. I have taken with the same crack in it. I have taken hundreds of pletures just as a matter of record to show how buildings, streets, sidewalks, etc., looked before we began work, and how these have actually been affected by the excavating. You would be surprised at the number of damage being which we can stop in just this Jewel. ms which we can stop in just this way.'

A year from next Fall, when trains be A year from next rail, when thins be gin to run in at least a part of the aub-way. New Yorkers will begin to appreciate the genius and energy which has been de-voted to this great enterprise. Not only New Yorkers, but all Americans as well. may be proud of the men who have car-ried the project from its first inception to within sight of its final completion. To William Barciay Parsons, the chief en-gineer of the Rapid Transit Commission, more credit is due than to any other single man. It was Mr. Parsons' pet plan for years before the Legislature of the state passed an act by which the work could be taken up. It has been the inde-fatigable labor of Mr. Parsons and his corps of engineers which has made possible the formation of plans for every de-tail now being carried out successfully. During the months preceding the letting

of the contracts Mr. Parsons' office were the busiest rooms in New York. Every street-car line, every support for elevated structure, building, sub-cellar, every wa-ter, sewer or gas pipe, together with house connections, every conduit was located; indeed, the character of the rock or soll in the path of the proposed subway was determined. Before the first pick was stuck into the ground Mr. Parsons knew that six and a half miles of sewer pipes alone had to be moved; he knew where pended.

line of subway will be tunneled under the East Side of Manhattan. The Brook-lyn subdivision is already assured, as is the Pennsylvania tunnel from Jersey City

lines of water and gas service would have to be changed entirely; he knew would one place where it would be necessary to whift several blocks of street-care line in order to carry on blasting successfully under it. When one stops to think of the engineering problems which were encoun-tered it is all the more surprising that

the work has gone on so successfully thus far. At the present time nearly a million dollars a month are being ex-It is not at all unlikely that another



Fables by George Ade

little Talk about Contentment being a

The Associate Partner played Simol

Legree, all except the make-up. The

saddest moment of the Day for him was

for the Saturday Half-Hollday Movement,

that was little better than Highway Rob-

bery. Those who formerly slaved along-

side of him in the Galleys had to address

him as Mister, and he had them num-

One Day an Underling ventured to re-

mind the Slave-Driver that once he had

been the Friend of the Salaried Minion.

when I plugged for the lowly Wage-Earn-

ers I never had been in the Directors'

Office to see that beautiful Tableau en-

titled 'Virtue Copping Out the Annual

Dividend.' I don't know that I can make

the Situation clear to you, so I will merely

remark that all those who get on our side

of the Fence are enabled to catch a new

Moral: For Educational Purposes,

every Employe should be taken into the

The Unfortunate Has-Been and the

Sympathetic Conductor.

light on your Eack over by the Fence,

sprang a lonely Bundle of Hard Luck

Tales. He pointed out a Corner Lot now

valued at Half a Million that had been

offered to him for \$150. Once he had been

given a Chance to trade a second-hand

Buggy for a half-interest in a Patent

that netted a couple of Thousand each

Day. The Stock in the Street Rallway

Company he closed out at 7. Afterward It

"I used to own the Ground where the

First National stands," he said, with

went to 293.

Angle on this Salary Question."

Firm

"Right your are," said the Boss. "But

bered the same as Convicts.

THE PROMOTED SUBORDINATE, THE UNFORTUNATE HAS-BEEN, AND THE FIGHT FOR LIBERTY.

NCE, there was an employe who was , of the Standard Oll. And now I'm getting getting the Nub End of the Deal. too old and weak to kick myself." He kicked on the long Hours and At the next Corner the ancient Wreck small Salary, and helped organize a alighted and tottered on his Way.

Clerks' Protective Association. He was "Is it not a Sad Case?" said the Young for the Toller as against the Main Squeeze. Man to the Conductor. "How bitter must be his Reflections when he counts up In order to keep him simmered down, the Owners gave him an Interest. After what he might have nalled, if he had

"Yes, I feel sorry for him," said the Humane Conductor, who was drawing \$3 per week. "All he can show is a measly standing around the Shop doing the Soldier Act. He learned to snap his Fingers Two Millions. What breaks his Heart is every time the Office Boy giggled. As for that he doesn't own both sides of the the faithful old Bookkeeper, who wanted street and the Green Cars that run in bean increase to \$9 and a week's Vacation tween in the Summer, the best he got was a Moral: The Kicker is the Man who gets

27

Part of It.

The Single-Handed Fight for Personal Liberty.

A Traveler landed in a Blue-Law Town one Sunday Morning and found it as dead when the whole Bunch knocked off at 5 as a Mackerel. There were only twoo'clock in the Evening. It seemed a Horses hitched at the Square, and in every Shame to call 10 Hours a Full Day. As Window the Curtains were down,

"Why and wherefore this funeral Hush?" he inquired of the Hotel Clerk. "The Sunday-Closers have been at work," replied the Clerk. "You can't get a Nip today for Love or Money."

"I can't, can't I?" demanded the Traveler indignantly.

"Do the Enemies of Personal Liberty think that they can deprive me of my just rights? Not on your Dreamy Eyes! Watch me." He cut for an Alley and began trying

every Back Door. He would rap three times on a bluff and say "It's me," but

there was nothing doing. However, he was not to be thwarted. In the absence of the Blind Plg and the Speak-Easy, he fell back on the Prescrip-tion Gag. Inquiring his way, he waiked 8 Blocks to a Physician's Residence and caught the Doc just as he was starting to Church. He gave the Doc the K. P. Grip and begged him to save a Life. He said he had Cramps and nothing but a large Slug of the Scandinavian Joy-Pro-ducer would relieve his Agony, Doc wrote: "Spirits Frumenti-take as directed," and aid it would come to One Dollar. Then the Sufferer went out to find a

In an open-faced Car sat a glib Person and a decrepit Old Gentleman with n Laggard and sorrowful Frontispiece.

Drug Clerk. After a long Scarch he found Mr. Higginson, of the People's Pharmacy, down at Main Street Bridge, pushing a Baby Carriage. At first the Druggist balked on opening up, but the The two dropped into a Conversation and oon began opening up their Private Affairs, according to the Western Fashion. The glib Party told how much he was Traveler said he was a Dying Man and handed over a good 10-cent Cigar. At 2 P. M. he went back to the Hotel, drawing and how he invested it and all about several gigantic Schemes that he wearing in his Pistol Pocket a Flask of Squirrel Whiskey, the color of Kerosene had under his Cuff. The Antique with the pall-bearing Face did not enthuse.

He was flushed and happy, for he had made a Monkey of the Law. He invited "Young Man, you will learn that Life is a series of wasted Opportunities and vain Regrets," he said. "When you are all in pulled down the Curtains and tapped the Regrets," he said. "When you are all in Poison and nobody could talk for 5 Minand a new Generation comes along and utes. gives you a good swift Bump and you

Two months later the same Traveler struck the Town one Sunday, and found a

Flask of

then you can lie there and look up at the Sky and count the Good Things that got past you." With that the broken-hearted Patriarch sprang a lonely Bundle of Hard Luck

pitcher of Ice-Water." Moral: Thirst follows the Prohibition Clause.

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Didu't Reprimand Her.

A little Cambridge girl was discovered whispering in school, and the teacher insked: "What were you saying to the girl next

to you when I caught you whispering?" The little culprit hung her head for a moment, and then replied:

Tears in His Eyes. "Like a blithering looked in your new dress." "Well, that-yes-I know-but we must

MAGINE a tunnel six feet high and | ings, now each several hundred feet long. three feet wide, from New York to It is like going into a mine. The heavy elevators sink slowly out of the daylight, Chicago, and you have some concepfirst into a dim haze and then into the tion of the cubical contents of the New thick smoke made by the blastings and by the miners' lamps which the work-men carry. At the bottom, 125 feet below York subway when completed. Now imagine that from New York to Cleveland there was solid rock, that for a the surface, one may go either north or considerable distance a street-car service south. It is impossible to see more than had to be maintained unimpaired above a few feet ahead in either direction. The the digging tollers, and that water mains, writer made the trip one afternoon recently just after the workmen had gone. The guide picked a path through the mud gas pipes and sewage had to be moved whenever the path of the tunnel interand water and related details on the way. cepted them, and you may realize what a "Twenty-six feet high here all along-two tracks. Look out for this multremendous engineering task is being pushed forward now in New York City

YORK'S WONDERFUL NEW

MOST EXTENSIVE PUBLIC WORK IN

THE WORLD NOW IN PROGRESS.

stable. "Come here, Jenny," he called out to a moving shape in the darkness stable. ahead. "There are six of these animals down here, and most of them haven't seen daylight for a year. Right above us," pointing upwards through the gloom, "there used to be a big boulder. When it fell it caught two men under it. That's the only accident we've had up here." The mules, the little dump-car tracks,

the drills at the ends of the headings, the blasts and the cavernous gloom throughout remind one of nothing so much as a huge mine. For two miles the work in this section is carried on by boring. On the surface no sign of an excavation is to be seen, save at the shafts, but next to the hoosic tunnel, this piece of the New York subway will be the largest piece of single-tube boring in this country.

These scenes are not familiar to many New Yorkers, because they are so far up Manhattan. There has just been completed, however, another section in which the same kind of work was carried on. When the contractor for the section which runs under a corner of Central Park un-dertook this piece of work his task was that of boring a tunnel through the solid rock without disturbing the surface of the park. There were many near-by buildings, and every unusually large blast was a menace to the neighborhood. Still the contractor accomplished his difficult task without a mishap. As an instance of the beautifully exact calculation which has been made in connection with every part of this work, the experience of this contractor in connecting his two headings may be cited. When the blast had blown out the separating rock it was found that the two headings had joined in one straight tunnel. There was not a fracwell-ventilated avenue of travel, and tion of an inch difference in the calcula-millions of passengers will be carried tions of each as to the location of the

over it every year. Those who wish to see strange sights In marked contrast to the scenes of min-

NEW

months ahead of contract time.

The comparison is not quite accurate,

but it serves its purpose of calling at-

tention to the most gigantic piece of en-

gineering in modern times. Three mil-

lion cubic yards of space, underneath a

teeming city, are to make room for a

\$35,000,000 milway. Sixty-five thousand tons of steel will be used in the arches,

pillars and rails. Ten thousand men will

have been engaged for nearly four years

in bringing this marvel about. All this

is to the end that the New Yorker and

the visiting stranger may be whisked from one extremity of Manhattan Island

to the other in a hurry. At the present time millions of feet

of lumber are being used to maintain undisturbed the street surface with its

cavations. If this timber had been used

in building homes for the army of 10,000 workmen employed there would have

been sufficient for a two-story frame house for every man. The 2,500,000 tons

of rock which are to be taken out would

make a solid wall three feet thick, six feet high and nearly 500 miles long, and

if the dirt were spread over Central

Park the entire area would be covered 10 inches deep. As a matter of fact, acres and acres of New Jersey swamp

land are being made habitable since the Rapid Transit Commission began to dis-

pose of the surplus dirt and rock upon

which the engineers and contractors are

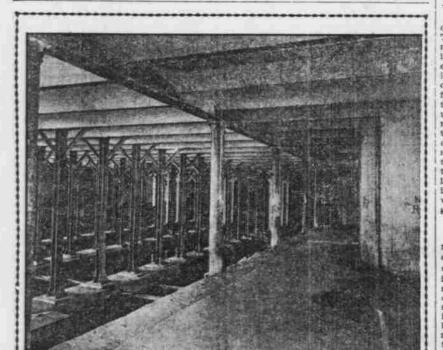
building, a city of one street, to be sure,

now with two rondways, now with four, but it is an electrically lighted, clean, well-ventilated avenue of travel, and

It.

is a veritable city under a city

easeless traffic going on above the ex-





other extraordinary operation is going on, The Bronz division has to dip under the river, and this section has not been done in the regular sub-river manner. A wooden structure, half the width of the river long, into whose cross-section an archway of the subway would fit, is built and floated from one bank. Then this struc-ture is weighted and sunk, and the pressure of the water above and around it makes it air tight. The river bottom is then dug out under the framework, and dirt and rock is placed on top of the structure to hold it down. When the trench is of sufficient depth the regular tunnel missonry is put in, and one-half be-the three completed the model structure ing thus completed, the wooden structure

is released and floated to the other side when practically the same operation is gone through with again.

The Most Expensive Mile.

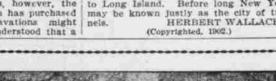
It is the ordinary surface cutting which may be seen by everybody, and this because it is the simplest kind of work connected with the subway, is the least interesting. The crowds, however, never seem to lose their curiosity. A network of timbers, supports, gas, water and sewer pipes is practically all that is vis-ible. Through convenient openings huge buckets are lowered to be loaded with rock or dirt, raised again and run along

the waiting carts. Great chains lock to-

e way until they are dumped into

Over on the other side of Harlem an- second street, thence around a curve to Broadway, and around another curve to

Long Acre Square. The construction of these two curves alone is a most serious undertaking, because it is necessary to pass under build-ings in order to get space for the turns.



At both of these corners, however, the Rapid Transit Commission has purchased property which the excavations might nels. HERBERT WALLACE. have injured, and it is understood that a



LOOKING SOUTHEAST FROM GOTH-STREET STATION-EVERYTHING IS COMPLETED HERE EXCEPT LAYING OF TRACKS.

in the metropolis can find more variety ing life, with its accompaniment of tremin a trip along the line of the subway bling from the blasts and its procession in its present state than in any other of oily, muddy drillers of the rocks are In a trip measure state than in any other in its present state than in any other excursion in Manhattan. New Yorkers have not yet accustomed themselves to the upheaval of streets, the jacked-up the upheaval of streets, the jacked-up timed-car lines, the swinging cranes and the solid rock at One Hundred and Ninety-fifth street will soon have a huge mouth. street-car lines, the swinging cranes and fifth street will soon have a huge mouth, the cable ways on which tonloads are carried at a time. Now and then the pedestrian is confronted by a working man who waves a red flag and cries out: "Fire!" and the pedestrian knows that an explosion is imminent. Crowds watch daily the operation of the com-Fifteenth street.

pressed-air drills which bore into the solid rock; at times the monotony of living in the neighborhood is disturbed by the thunder of a blast, passengers in nearby street-cars feel their hats lifted slightly from their heads. They remark, "Only the subway," and wonder when all the confusion and muss will be over.

Down below, on the damp, sunless botof the many openings, the real state of the subway may best be seen, provided one is fortunate enough to secure per-mission to explore the cuts and headings. At City Hall Square, the lower terminus, fully two-thirds of the work has been done. One section of the loop is already covered over, and the floors, arches and entrances of the station are now being completed. The City Hall Station is to be a local train station only. Originally a great loop was planned here, which was to circle a part of the Postoffice and furnish room for the main station, and it was understood that all the trains, both express and local, should pass this way. The task, however, was too diffi-cult. It was not possible to pass under the Postoffice Building without weaken-ing that structure, and the plan to tun-hel to Brandhum also made it of the to Brooklyn also made it advisable to locate the main station at the bridge. Accordingly Mr. William Barclay Parsons, the chief engineer, planned a smaller loop and a local train station, which has aroused the admiration of all the engineers. There is not a straight line at this terminus. The station is a curved platform, the roof is a series of domes and arches within arches. The change in the loop made necessary a switchyard for trains, and this was tunneled out under Park Row.

Only a short distance up from the loop is the main station. That is to say, the main station will be located here, close by the New York end of the Brooklyn bridge. It is one of the last pieces of work to be taken up. On both sides of the locality work has been going on for nearly two years, but, owing to the continual crowds in this neighborhood, it has seem ed best to complete one part before beginning another.

A Mine in the Big City.

From the bridge station the four tracks will extend in practically a straight line to Forty-second street, thence over to Broadway, and up Broadway to One Hundred and Fourth street. From this point there are two branches, one extending up or near Broadway to Two Hundred and Fifteenth street, the other cutting through a corner of Central Park, under the Harlem River, and up into the sub-urbs as far as Bronx Park. Over this line all kinds of operations are being carried on from the sinking of shafts 150 feet down in solid rock to erecting high bridges and elevated structures. The most interesting experience the ex-

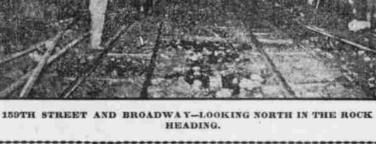
plorer of the subway can have is to go down the One Hundred and Eighty-first-street shaft and walk up one of the head-

gether the timber supports of the street-car tracks. Pillars of wood and steel hold up the street surface. And thousands of pass over these yawning holes without a thought of danger, de spite the accidents that have happened The work is carried on with the greatest margin of safety. No sooner is the smoke of a blast cleared away than timber supports are driven into place. Wherever an open trench is dug the side drifts are a tunnel to an elevated structure. Inence one mile of bridge is to be built up to the end of this branch at Two Hundred and

way extends from Thirty-second street un-der the street railway tunnel to Forty-

HEADING.







And the leaves of the judgment book unfold

-Bayard Taylor.

The same whom in my schoolboy days I listened to; that cry Which made me look a thousand ways In bush, and tree, and sky. To seek thee did I often rove Through woods and on the green; And thou wert still a hope, a lave; Still longed for, never seen. And I can listen to thee yet; O blessed bird! the earth we pace Again appears to be in unsubstantial, fairy place, That is fit home for thee! -William Wordsworth. To Thomas Moore, And my bark is on the sea; But before I go, Tom Moore, Here's a double health to thee! Here's a sigh to those who love me, And a smile to those who hate; And, whatever sky's above me, Here's a heart for every fate! Though the ocean roar around me. Yet it still shall bear me on;

Though a desert shall surround me, It hath springs that may be won. Were't the last drop in the well, As I gasped upon the brink. Sre my fainting spirit fell. 'The to thee that I would drink. With that water, as this wine, The librion I would pour id be-peace with thine and mine. And a health to thee, Tom Moore -Lord Byran

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BIRDSEYE VIEW LOOKING NORTH AT UNION SQUARE.