

HE American steam shovel-and all steam shovels are of American manufacturemarks an era in man's conquest of nature. One of the most powerful of the tools that steam and steel have made possible, it ranks among the greatest labor savers and wealth producers engineering genius has

devised. These grunting Titans, although almost unknown beyond the shores of America, are adding hundreds of millions of dollars to the world's wealth and doing the work of armies of men. Whether digging the big canal across the Isthmus of Panama, loading ore trains on the lake iron ranges, leading new railroads across the Rockles, tearing away the mineralized walls of Western canyons, making huge excavations in the rocky floor of Manhattan island, stripping coal veins in Pennsylvania, quarrying railroad ballast in the Mohawk vailey, or deiving for copper in Spain, where once tolled the slaves of the Cæsars—the steam shovel tells a splendid story of the American indus-

The biggest user of steam shovels in the United States is the Steel Corporation. That is why the trust commands the iron ore market. The millions of dollars a year that the trust saves by using steam shovels would pay the dividends on a good share of the half billion dollars of common stock. Up in one of the great opencut iron mines in Minnesota ore is mined and carried away with amazing speed. The mines are worked from the surface by open cut, as a reservoir or canal would be dug. Over railroad tracks run through the pit the big ore trains are hauled alongside the giant shovels. One shovel, picking up six tons of ore at each assault on the ore bank, loads a fifty-ton steel car in three minntes. Trainload after trainload of ore is hauled away to the ore docks at the head of the lakes, there to be put aboard the big lake ore ships at a speed of 300 tons

The Panama canal job has recently thrown the American steam shovel in the limelight before the world. When our government undertook the task that had baffled the world's engineers, and promised that it would be completed within a few years, even the American

people were skeptical. But the engineers who planned the work knew the possibilities of steam shovel excavation-then untried on big canal work. They had seen giant shovels in iron mines and stone quarries, and they knew that steam shovels and dynamite could make mountains disappear. The government put in the biggest order for steam shovels ever given in the country. These shovels were sent in ships to the isthmus as fast as they could be made. Now there are more than a hundred shovels cutting the canal from ocean to ocean, and making world records in heavy excavation work.

Just as American steam shovels have revolutionized iron mining and copper mining, so have they revolutionized canal digging. When the Erie canal was built, in the '20s, the pick and shovel, the wheelbarrow and the wagon, were the only tools in excavation work.

The Suez canal cut was 80,000,000 cubic yards. It took ten years to do the work, even though most of it was sand. The Panama canal calls for 140,000,000 cubic yards of rock and earth excavation and dredging. Last year 35,000,000 yards were completed, or nearly half as much work as was done on the whole Suez canal. On the central division, which includes the Culebra rock cut, the steam shovels did 50,000 yards a day, 1,500,000 yards a month. This steam-shovel performance on the Panama canal makes the Suez canal construction look

like digging a sewer trench. The first steam shovels were used in railroad construction, and they now are part of the working equipment of every important railroad in the country. Every big contractor has his battery of shovels; some contractors have scores of them at work from ocean to ocean. In the rebuilding of American railroads, especially through the mountains of the West, where enormous quantities of rock had to be handled in reducing grades and curves, the steam shovel was of invaluable service. Harriman, in rebuilding the Union and Southern Pacifics, tore away mountains and filled up canyons with steam shovels. On the new lines that have been built to the coast-the St. Paul, the Western Pacific, and Clark's road-the steam shovel has made new records in railroad construction. Many millions of dollars have been saved, and improvement work, of hitherto prohibitive cost, has been made possible

Head of Firm Says All Petty Graft Isn't in Pittsburg. "Petty stealing, cheap graft-it's not all in Pitsburg." The head of the firm was angry.

WATCH THE LITTLE THEFTS.

"Send for that collector," he said. The collector came. Seems to be too much work for ou," the managing partner said.

Probably you need help. The collector believed another man would be a valuable addition to the force. "H'm thought so," the manager said, and then, reading from a slip: "March 3-Left store 8:30; went to home at 93476 East Steenth street, returned to store at 11:25; 2:15 went

to Orpheum, etc.' He turned on the now amazed collector. "Hard work, wasn't it?" he snapped. "Now, do you desire to work, help pay the expense of the detective who trailed you and make good, or will you quit now?"

"I believe I'd like to work it out." the trembling collector replied. "Well, get a move on you, then," was the parting admonition of the

manager. And the collector got it on. "Cheap graft," the manager resumed. "Often wonder how some men can stoop to such meanness. Net long ago I observed that a certain young man had long been ordering furnishings, neckties, and such things by letter and paying for them in stamps. That seemed queer. I don't care for business that's crooked, so I investigated that customer. Found he worked in a bank; son of a wealthy fatherjust cheap graft. He'd been stealing

stamps for a year. "We allow our outside men to turn in daily accounts of money spent for car fare. Often one man collects it for several to save making many accounts. When I noticed one of these men charging us more car fare than I believed he spent I looked him up. Discovered he'd aded a figure 1 to the 80 or 90-cent account every day and so got \$1.80 or \$2-cheap stealing for a dollar. Cost him his job.

Nothing so detestable and so annoying in business as this form of dishonesty. There's stealing going on now in this store that I don't know how to touch. The question in the minds of employes is, 'Should I tell the firm, or is it any of my business?" When we can get employes to understand that the firm's interests are theirs we'll have most of the graft

controlled. "If you see a clerk stealing from your employer, isn't it your duty to tell him? Wouldn't you report it if you saw a man putting his hand into another man's pocket on the street? Don't you owe that much to the man who pays your wages or salary?"-Kansas City Star.

The Power of Suggestion. actually in the printed words that in- the least trouble possible to thempresses us most. We are not so much selves. affected by what an orator like Webster actually says as we are by what he suggests; the latent power, the mighty reserve force that we feel he might put forth were the emergency

ESCAPE FROM SUBMERGED SUBMARINE.

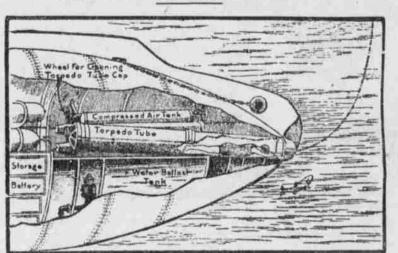


DIAGRAM EXPLAINING A DANGEROUS TEST

HILE there are many to question the value of the submarine as an engine of war and many to hold the opposite view, there are very few with sufficient hardihood to deny that the type is dangerous for those who man them, whatever they may be to an enemy. The very nature of their mission makes them heir to more different kinds of danger than any other craft that floats-or sinks. Those who believe in them have asserted that they are immune from many of the ordinary perils of the sea, that they have no boilers to burst, no masts to carry, no rigging to be

strained, no sails to split, and no concern about stormy weather, as they can plunge beneath the surface when seas run high. Ensign Kenneth Whiting, at present in command of the submarine Porpoise, now stationed at Manila, a few weeks ago took his vessel out into the bay, and, with a small boat in attendance, undertook an experiment that

has made him famous. The young ensign had conceived the idea that a man could make his way out from a submarine by way of the torpedo tube. A torpedo is the only weapon that a submarine carries, and as the boat must discharge the missile while submerged it follows that there must necessarily be some appliance for ejecting the missile and closing the orifice immediately after dis-

charge. The little that is known of Ensign Whiting's exploit is contained in the official report which the commander of the submarine flotilla recently forwarded to the Navy Department at Washington, and which the department promulgated in circular form, to be read on the quarterdeck of every vessel

in commission. It says: "Ensign Whiting entered the torpedo tube of the Porpoise through the after door of the tube, the cap of the forward door being closed. He then grasped the strong back of the crossbar of the cap and ordered the after door closed. As soon as the after door was closed the gunner's mate stationed at the cap engine opened the cap. The cap in opening forward and up hauled Engign Whiting clear of the tube, so as to enable him to use his arms to come to the surface and to prevent his being shoved back into the tube by inrushing water. The whole operation consumed about seventy-

five seconds." This same Perpolse came perilously near drowning her entire crew a few years ago. The vessel was maneuvering around Newport when she suddenly showed a disposition to seek the bottom. She quickly found it, and came to rest on the seabed. Overhead was a hundred feet of water. Too much water had been taken in as ballast and something had gone wrong with the automatic valve which should have controlled the inrush. Luckily a hand pump was found, and, working for their lives in the fast vitiating air, the crew managed to force out enough water from the ballast tanks to being the submarine to the surface.

Be Prepared. A great many people prefer to allde whole along the line of least resistance, to get along just as easily as they can. Washingtons, the Lincolns, the Glad- their education is deficient, that they and such inferior seed. stones and the Disraelts, says Orison lack special training; and they know Swett Marden in Success Magazine. It that they could manage, somehow, to harvest, he must prepare the soil, he is the reserve power which we feet repair their deficiencies, but they lack must do some good sowing in the seedback of the words and between the the energy to do so. They prefer to time lines of a powerful book; not what is silde along in an easy-going way, with You cannot take out of your life

How many wrecks, how many incomplete and wretched lives we see every where because people did not think it worth while to prepare for much of a career! They thought they would get shows your circulation is bad. Editor just a little education to help them |-That's all you quacks know. I supalong; just enough for practical use. pose if my corns ached that would Yours is the only hobby that is not They did not think it worth while to show that advertising patronage was dig down deep and lay broad foundar falling off.

tions. They did not see life as a

The reason why the lives of so many people are mean and stingy and juiceto paying the price in preparation for less is because they put so little into It was the reserve force stored up something better, says Orison Swett them, they make such a meager prepin the years of conquest and the habit Marden in Success Magazine. They are arstion in education, in culture, in of triumphing in whatever they under not willing to prepare themselves for training, in thinking. Their harvest took that gave such power to the a wider, larger place. They know that is small because they sow so little

If the youth expects a rich, golden

what you have not put into it, any more than you can draw out of a bank what you have not deposited.

A Sensitive Patient. Dr. Emdec-Feet go & sleep? That

A SQUAW'S STORY.

She May Regala Birthright Which

Went to Another. Sun-a-was, a full-blooded Comanche Indian squaw, whose memory runs back beyond the time when the red man left the land east of the great 'Father of Waters" to take up his ome on the vast prairie stretches, wants a home to die in, and her story so touched an Oklahoma member of Congress that he has taken up her case with the department of the interior, with the prospect that Sun-a-was may again come into the birthright of

which she asserts ahe was rebbed. Years ago, called by the spirit of vanderlust and the hope of a new life and home, she picked up her beongines and followed a Mexican suitor into Mexico, little knowing that the great United States government was going to divide up the lands of her tribesmen and give each man, weman and child a farm of 160 acres on the fertile plains of the great Southwest, where the braves of her people once bunted the buffalo. Years went by until one day there

the story was heard that she was the daughter of Sun-a-was, who had died in Mexico, and the thirteen children were the grandchildren of the old Comanche woman. The government believed the woman's tale, and so the woman and the thirteen children were each granted allotments of 160 acres of the best land

2,240 acres in all. But the Comanches had suspicions. They discovered that the woman repre senting herself to be the daughter of Sun-a-Was was "too much Mexican."

in the Klowa-Comanche county, or

Last November there strolled into the office of Representative Scott Ferris in Lawton a party of full-blooded Comanches. With them was Sun-a-Was, who told her story to the representative. She made affidavit that all her children were dead.

SHORT METER SERMONS.

Physical force cannot overcome

spiritual force. - Rev. W. P. Hines, Baptist, Lexington, Ky. The man who has hold of the eter-

nal verities is free as air. -Rev. A. P. Fitch, Congregationalist, Boston. The greatest need of our day is the hospitality toward Jesus Christ.-Bishop E. H. Hughes, Episco-

pallan, San Francisco. Experience is the illuminated pathway along which God's richest blessings come to man .- Rev. G. R. Wallace, Congregationalist, Toledo.

Death is a necessity if the race shall continue to multiply; and only our thought surrounds it with horror .-Rev. T. E. Barr, People's Pulpit, Milwaukee

A clean heart and a right life will beautiful in life, beautiful in death .-Rev. P. W. Snyder, Presbyterian, Pittsburg. If you want to know whether Chris-

not seek to eradicate.-Rev. J. A. Hensey, Evangelist, Binghamton. The cry for help coming from a hu-

man heart never fails to move the heart of Christ with sympathy-sympacity that reveals itself in action .-Rev. N. Bailey, Baptist, Providence. The time has gone by, for the modern church to maintain its stupid conservativeness. The church must

change with the changes of life and times or go under.-Rev. C. H. Eaton, Baptist, New York City. Whenever a nation, a city or a single heart looks up to God in love and occurence the windows of heaven begin to open and an overflowing bless-

ing begins to descend.-Rev. R. F. Maclaren, Presbyterian, Los Angeles. As the telescope adds its millions of stars to the 6,000 visible to the naked eye, and the photographic plate adds again to that, and as the brilliancy and the magnitude and the glory of coloring belong to those revealed by the higher powers so are the promises of God made evident to such hearts as are especially trained to see the greater things,-Rev. T. A. Moffat, Congregationalist, Newark.

No Right to Comptain.

Did you ever notice how much harder it is to satisfy the man who got in for nothing than the man who paid for his sent? The rule holds good apparently in church, too, for a writer in Harper's Magazine says;

A Buffalo preacher tells a story of a woman who after hearing him preach informed a friend that she did not like the services at all. The seat was hard, she said, the singing was not good, and the preaching was poor. Her little girl, who overheard her remarks, and who was present with her at church, said:

"But, mamma, what can you expect for a penny?"

A Polite Inquiry.

A few days after a farmer had sold

"How d'ye do, Johnny?" said he "How is your pig to-day?" "Oh, pretty well, thank you," replied the boy. "How's all your folks."

Two Kinds of Tears. There is something very genuine in the domestic situation indicated by Selmore had just arrived. this scrap of conversation, printed in the Cleveland Leader:

we've been married." "On what occasions?" to get her a set of furs for Christman, and when I got 'em for her."

Infants' foods form a considerable item of importation, \$41,020 worth is 1908



-Minneapolis Journal.

A PRESENT FOR TEACHER.

AN EVENING PRAYER.

To-night I lay the burden by. As one who rests beside the road, And from his weary back unbinds The whelming load.

kneel by hidden pools of prayer-Still waters fraught with healing power; In God's green pastures I abide This longed-for hour.

know that day must bid me face Courageously my task again, Serving with steady hand and heart, My fellow men.

To hold my sorrow in the dark, To fight my fear, to hide my pain, And never for one hour to dream The toll is vain-

This be to-morrow; now, to-night, Great, pitying Father, I would be Forgiven, uplifted, loved, renewed, Alone with thee. -Grace Duffield Goodwin.

Under Difficulties

Haskins never did care for Selmore anyway. At first he had disliked the make the homeliest face beautiful - fellow mildly on general principles, but later he hated Selmore cordially, for a specific reason. Alice Clark was

the reason. When Selmore first saw Alice Clark and fell a victim, Alice was in Hastianity is true, try it. The objections kin's car. Though he did not realize contradict each other, and are not it. Haskins had grown to consider her true.—Rev. C. F. Aked, Baptist, New as belonging to his car quite as much as belonging to his car quite as much as he did himself. He had glowed kins; maybe-There is nothing good in humanity with a little proprietary pride when that religion does not strengthen, he detected the gleam of interest and there is nothing harmful that it does admiration in Selmore's eyes, but he was not prepared for what followed.

Selmore had stopped by the car and after being introduced, had cheerfully



"THANK THE FATES.

asked for a lift to his destination and got it, occupying the entire time of transit in conversing with Alice quite as though Haskins were a hired chauf-

A week later, when Haskins called on Alice and found Selmore there, he learned through the conversation that Selmore had accidentally met her in a candy shop and had promptly asked to call. And he kept on calling.

Haskins tried to convince himself that had it been any one else on earth than Schmore he should not have cared. It was simply, he told himself, because he disliked Selmore so. Alice a pig to a neighbor, says a writer in certainly had a right to have as many the Cleveland Leader, he chanced to callers as she chose, inasmuch as she pass a neighbor's place, where he saw was not engaged to himself. It was the little boy sitting on the edge of the first time the idea of being engagthe pig pen, watching its new occu- ed to Alice had presented itself to him, and he thought about it a great deal after that, mainly because Selmore persisted in interfering so with his established routine.

He was especially upset one evening when, having made an engagement over the telephone to take Alice automobiling, he called only to find that

Out of politeness he asked Selmore to come along and to his rage Selmore "My wife has cried only twice since brazenly accepted. Haskins had quite counted on that ride as a pleasant one, for it was a springlike evening. "When I told her I couldn't afford There was to have been a spin over the boulevards, supper at some quiet place and then home in the moonlight -and who could tell what might happen? Now, here was Selmore, fastened on him for the whole evening.

that Alice had looked a trifle disappointed when Selmore acceped, yet he bitterly felt it could not be so, for Selmore was looking especially handsome in his new spring suit.

The ride progressed in an electric silence on Haskins' part and with fluent conversation on Selmore's. They had the spin and the supper, which was as ashes in Haskins' mouth, Then they started home. On a downtown street corner the machine wheezed and stopped. Haskins took malicious delight in making Selmore descend and help him back it off the car tracks. Then he investigated irritably, for accidents were allen to his car.

As he delved amid the machinery Selmore sat aloft amiably talking to quency to learn by actual experience Alice. When at last Haskins had to what is meant by indigestion, the lescrawl under the machine and lie flat sons varying from the occasional acute on his back while he pounded the mechanism he knew how anarchists feel.

"Here, Haskins," Selmore called down finally, "can't you fix it? I should think you'd know your own car better." "It's getting terribly late," said

As Haskins plodded away to a telemore. After wrestling with the phone by a failure to recognize that the atomand fluding he could get no help Has- ach is not the real culprit, but is only kins phoned his home garage and then put forward by the rest of the system. went back to the two in the car.

me," he said. "You two can just catch the last suburban train if you hurry. it, so that I'll know Miss Clark will cause the real trouble has not been rec-It will relieve my mind if you'll take get safely home." "Splendid idea!" agreed Selmore

and leaped out. He reached up a helping hand to the girl in the back seat. Maybe she had had too much of

At any rate she never moved. She

regarded Selmore coolly. "I am not going to desert the car and let Mr. Haskins wait here all good circulation, and this is impossialone till goodness knows when!" she ble if the brain is calling for more catch the train, Mr. Selmore! I shall reason why brain workers should not said distinctly. "You hurry along and

kins" So Selmore had to go. As Haskins watched him vanish around the corner he was conscious that a great joy percolated throughout his system. He climbed out of the driver's seat and in beside Alice.

"Thank the fates!" he breathed. 'Now maybe while we're waiting I can have a chance to say a few things to you that I've been wanting to say! Chicago News.

PLANS SCHOOLS FOR SOUTH.

Priest Pledges Himself to Raise \$100,000 Yearly to Help Negroes. A movement has been started by the Catholic church in the United States work a miracle. for the wholesale conversion of negroes and the Rev. John E. Burke, pastor of the only Roman Catholic church ache," in which, as the name implies, for negroes in the city-the Church of St. Benedict the Moor, in West 53d head, is much more apt to be caused street- is in charge of the work, the New York Evening Telegram says.

It is the plan of Father Burke, who ates in the country, to raise \$100,000 the eyes, or any continued strain or every year in order to establish new excitement.-Youth's Companion. schools, mission chapels, substantial churches and a seminary.

At present there are only four negro priests in missionary work among their own people and their field is conincrease this number to hundreds. Cardinal Gibbons has taken an actpaign and recently he sent a circular letter to the clergy and laity of the country calling attention to the needs of the negro mission movement and

help it along.

needs of the Catholic negro of the to the guns and said: country, said: "We want to tear down the old mis to retire, for I am ordered to shoot sion chapels of the south which are dilapidated and build new ones. We want to build substantial churches where they are needed and establish

.e young. The colored people them-

Father Burke, in speaking of the

selves have not the means to do these things. "We also want to get more young men of the race to study for the priesthood and seminaries will be necessary Our idea is to make this not only a campaign of religion, but one of education as well, for we realize that both go hand in hand, and to make colored people of the south good Cath-

olics we will have to educate them." Most of the funds to be raised by Father Burke will be used for missionary work in the southern states.

It's human nature to believe all the He tried to make himself believe good we hear of ourselves.



Stomach and Nerves. There is no one living who has not been compelled with more or less freindiscretion, to the condition of semiinvalidism in which many persons languish, solely by reason of the uncertain action of the digestive pro-

In most cases of indigestion, or dyspepsia, the stomach or the intestines are at fault; but this is by no means always so, and great injustice is done as it were, as a spokesman. It faith-"They're are sending a tow after fully performs its office of lodging a complaint for the general economy, and it is then immediately dosed and redosed, with disappointing results, be-

ognized or attacked. Everyone has heard that it is best not to eat when extremely fatigued. but this is not because the stomach itself is tired, but because the entire system is temporarily too enfeebled to Selmore, maybe she felt sorry for Haswith the increased work that digestion entails. The stomach, in order to do its work properly, must be fed with the nervous force that comes from than its share. This, again, is the wait and be towed in with Mr. Has go straight from their work to a heavy simple gymnastic exercises first, in order to draw the blood from the oversupplied brain down to the stomach, the turn of which to work has come. The same reason should forbid intmediate hard work of any kind after a

meal. Let the stomach have its fair turn. Much indigestion may be classed as purely nervous in its origin. If the whole nervous system is out of order and on strike, it would be strange if the nerves of the stomach should escape the general calamity. In this type, constant doses of medicine for stomach trouble" will do little good, but judicious rest and general toning up of the whole nervous system may

That most wretched of all the briefer illnesses known as a "sick headthe stomach is a co-sufferer with the by irritated brain centers than by abuse of the digestive organs, as is proved by the frequency with which has the active support of all the prel- an attack is brought on by overuse of

Vanity Tricked.

During the early excesses of the French revolution a rabble of men and women were rloting in the streets of fined to the southern states. The in- Paris. Lafayette appeared and ordered tention of the church authorities is to a young artillery officer to open fire upon them with two cannon. The officer begged the general to let him try ive interest in the extraordinary cam- first to persuade them to withdraw. "It is useless to appeal to their reason," said the general.

"Certainly," answered the officer, "and it is not to their reason, but to urging all to make a special effort to their vanity I would appeal."

The officer rode up to the front of the mob, doffed his cocked hat, pointed "Gentlemen will have the kindness

down the rabble." The street was cleared at once, for

none could brook the idea of being classed with the scum of the city. parochial schools for the education of The Supe.

Two speeches only had the supe-Now, cattiff, yield!" the first; "For Rome and Gracehuat" followed

And in these he was rehearsed. opening evening came and he Rushed on with the attackers;

Yow, Katie Field!" to his for he said. Then yelled: "For Rum and Crack-

-- Boston Evening Transcript.

While a good many men hate to be caught, that is the only part of being chased by a woman that they object