Engineering World Won-Idea—Juridical Triumph as a Side Line.

umph at Panama is seen to be due to the American doctor. That American engineering skill is equal to anything, was known by the well informed before ever earth was turned in the canal sone, and is known by all, now, in the light of facts accomneering skill was helpless, with-

the excavation were uniform across the the excavation were uniform across the isthmus for the entire fifty miles from deep water in the Atlantic to deep water in the Pacific, the result would be a ditch 18 feet deep and 174 feet wide throughout the whole distance. If it were possible to maintain this tremendous pace until the end it would be only about 26 months from the first of March until the last shovelful of dirt was turned.

dirt was turned Great Task Under Difficulties.

on Easy Street

The old days of cooking cereals for hard will contain a serious consider the name and the serious constraints. The constraints are some all the serious that they have been able to maintain it up to the presence the world. Yet it has been done up-during the form on the serious contains in down purpose of three feet of water has a reverage of three feet of water has a fine coming in down pour so that a foot a day. Whatever else Mr. Taff some the bigest hoet that was ever day in ten months. During the twelve monther from summed to more than 35,000,000 cubic yards. If they can have the bigest hoet that was ever done the first will find the present day. Whatever else Mr. Taff some the bigest hoet that was ever done the first will find the present day. Whatever else Mr. Taff some the bigest hoet that was ever done the first will find the present day. Whatever else Mr. Taff some the bigest hoet that was ever done the first will find the present day. Whatever else Mr. Taff will find the engineers on the lather than the construction of the same pour form of the world. Yet will find the present day was to difficulties. Wast as are their propositions they look like child's nix beside they have the excavation problem that demands serious consideration of the world water of the world was during the feet will be safely a summary of the world was a summary of the

for breakfast are gone. All that's necessary now-a-days is to pour out of the package some perfectly cooked, crisp, tempting, golden-brown bits of

## **Post Toasties**

The food expert has produced from pearly white corn by skillful cooking, a food delicious beyoud the comprehension of the past-a flavour one don't forget.

"The Taste Lingers"

Popular pkg. 10c; Large Family size 15c

Made by POSTUM CEREAL CO., LTD., Battle Creek, Mich.

the material. These will have 20 inch centrifugal pumps, and hour after hour, day after day, and month after more working in day and night shifts, they will press forward the work of rearing this artificial mountain across a river valley. Perhaps 69 per cent of the material they pump will be water. Of the remaining 40 per cent engineer Saville figures that only 60 per cent will remain on the dam. On this basis nearly as much material will have to pass through those pumps as has been taken from the canal proper from the day the French turned the first shovelful of dirt down to the present time. When Mr. Taft was last on the isthmus all the plans for Gatun dam were tentative. The experiments have now been made, and the work is ready to proceed.

The amount of supplies that has been The amount of supplies that has been used on the isthmus in the past ten months is beyond the conception of most men. Think of the damage a carload of dynamite has often wrought, how it has sometimes almost annihilated small towns. Then fancy 200 carloads of it being used in one brief ten months' period. That is the way they have been using it down on the isthmus since Mr. Taft was last there. They have used a half million blasting caps and everything else in proportion.

Health on the Isthmus. When he last looked over the big ditch Mr. Taft was wonderfully impressed with the sanitary situation in the canal zone. It was regarded as the climax of all the arguments in favor of the merits of preventive medicine. The the merits of preventive medicine. The record of each year surpasses the previous one. Last year the death rate among the negroes in the canal employ was nearly 46 out of every 1000 members of the force. This year it was less than 20 out of every 1000. Jamaica, from which island comes a large percentage of she negroes at work on the canal, is one of the most healthful islands within the tropics, yet the death rate there is fully a third more than the death rate among the negroes on the isthmus. The death rate among the negroes in the canal employ is about one half less than that among those residing in the national capital itself.

neering skill was helpless, without labor; and labor was in a panic at the very name of "Panama". The American doctor made made the zone "a good place to live in." Labor came. Brain set it tolling aright. The Culera cut and the Gatun dam are results. Readers of The Journal are to be told about all these things in Frederic J. Haskin's third Panama letter, which will appear tomorrow.

\*\*\*By FREDERIO J. HASKIN.\*\*

(Copyright 1909 by Frederic J. Haskin.) Washington, Feb. 3.—During his present visit to the isthmus President elect Taft will note many evidences of the wonderful progress toward the uitimate completion of the canal. In the him months that have passed since has called on the canal diggers they have excavated 27,000,000 cubic yards of material. Unless there is an unexpected mishap in the present month it will foot up the enormous total of 30,000,000 cubic yards of material. Unless there is an unexpected mishap in the present month it will foot up the enormous total of 30,000,000 cubic yards of material. Unless there is an unexpected mishap in the present month it will foot up the enormous total of 30,000,000 cubic yards of material. Unless there is an unexpected mishap in the present month it will foot up the enormous total of 30,000,000 cubic yards of material. Unless there is an unexpected mishap in the present month it will foot up the enormous total of 30,000,000 cubic yards of material. Unless there is an unexpected mishap in the present month it will foot up the enormous total of 30,000,000 cubic yards of material. Unless there is an unexpected mishap in the present month it is reduced to every day terms. The average city house is probably 21 feet wide, 32 feethigh and 48 feet deep. The excavation at Panama in ten months would make a hole in the earth big enough to bury 25,000 such houses.

To illustrate in another way the immensity of the ten months' work: If the excavation were uniform across the isthmus for the entire fifty miles from deep water in the Atlantic to deep distance of the jury system Juries in Spanish America. The success that has attended the

Mr. Taft, on reaching the sone, found the Panama railroad force up to their ears in the work of relocating the road. The excavations for the canal can pro-ceed during the rainy season now as well as during the four dry months, so well as during the four dry months, so thoroughly has the force been organized. But on the other hand, little can be done toward building embankments when as much as six inches of water falls in a single day. It happens that most of the relocation work is on the Atlantic side of the Isthmus, and there more than 10 feet of rainwater falls during a single wet season. They got ready while it was raining, and are now making the effort of their lives to accomplish things during the four months of dry weather. The creation of the Gatun lake will put the present tracks of the railroad under \$5 feet of water, so they are skirting the side of the future lake with a high embankment, and making regular stairsteps of dumping tracks to facilitate the handling of the dirt.

Building Permits.

Building Permits.

Guy P. Bell, repair one story frame dwelling. 1122 East Twenty-eightil street north, between Killingsworth and Emerson, \$600; S. Latham, erect one story frame dwelling, Kirby street, between Alnsworth and Simpson, \$1500; l. Lang, repair two story brick store, Sixth street, corner Alder, \$200; F. W. Graves, repair two story frame dwelling, 250 North Nineteenth street, near Marshall, \$500; A. E. Mann, repair one story frame dwelling, Ravensylew Drive near Patton, \$250; Miss E. J. Fitzsimons, erect one story frame dwelling, East Morrison street, between East Thirty-fifth and East Thirty-sixth, \$1500; E. P. Murphy, repair one story frame dwelling. Tillamook street, between Union and Seventh, \$1200; Piedmont Planing Mill company, erect one story frame shed, Union avenue, between Riggen and Durham, \$450; E. C. Pelton, repair two story frame blacksmith shop, Fourth street, between Glisan and Hoyt, \$50; P. W. Bowers, erect one story frame dwelling, East Flanders street, between Thirty-first and Thirty-second, \$1500; Alder Realty company, repair two story brick office, Second street, between Alder and Morrison, \$500; J. Volheye, repair two story frame dwelling, 490 Douglas street, between Heast Ninth and East Eleventh, \$100; J. B. Marshall, erect one story frame dwelling, East Main street, corner Forty-third, \$1000; J. A. Thomas, erect one and one half story frame dwelling, Clackamas street, between Thirteenth and Fifteenth, \$1600; W. E. Pettijohn, erect one story frame dwelling, Clackamas street, between Tranklin and Powell, \$1500.

Breakwater Sails Wednesday The steamer Breakwater, which was scheduled to sail for Coos Bay Monday night, will not leave until her regular salling date, Wednesday night, 8 o'clock, from Alnsworth dock.

### WARDS OFF BLOW AT OREGON BOX FACTORIES

Changes in the western freight classification of great importance to shippers in this territory have—lust been agreed upon. The provision of the classification of great importance to shippers in this territory have—lust been agreed upon. The provision of the classification of the classification on livestock has been that which have classification of modelle. All a Assistant General Freight Agent. W. D. Skinner of the O. R. & N. represented the Barriman lines—in the cooperation of other interested officials managed to suppress an attempt to increase of 10 per cent increase in cooperation of other interested officials managed to suppress an attempt to increase of 10 per cent increase in crease of the rate per 100 pounds or can addition of 25 per cent will be made to the rate per 100 pounds or can be read to an increase of 10 per cent increase in crease in the existing rules of the north-west and was intended to make it impossible for them to compete with the factories of the morth-west and was intended to make it impossible for them to compete with the factories of the morth-west and was intended to make it impossible for them to compete with the factories of the morth-west and was intended to read to an increase of 10 per cent will be made to the rate per 100 pounds or can all Most General season.

A week was given by the committee being that the vote on the result of the vote to be announced in the existing rules of the western classification. Almost the whole of two classifications are to the principal rules voted on and adopted at the larger box manufacturers and interested shippers of the proposed change in the requirements of the proposed change in the requirements of the proposed change in the requirements of the proposed change in the requirement of the prop

It is recognized, however, by box manufacturers and by shippers that some changes in the present requirements of the classification as to these packages are necessary, particularly as to the manner of sealing and as to the strength of the packages with relation to the weight of the goods which they are designed to carry. There was, however, so much diversity of opinion as to just what changes should be made that it was decided to give the present requirements another six months' trial with the understanding that definite requirements will be adopted at the next meeting, to be held at Charlevoix, Mich., next July.

A reduction of considerable import-

Commissioner of Corpora-

tions Outlines Views for

Restricting Interests.

When the great system of secret

When the great system of secretard and semi-secret railway discriminations enjoyed by the Standard Oil company was made public by the bureau in 1996, the railroads concerned therein at once voluntarily canceled every rate thus

voluntarily canceled every rate thus criticised as illegal. Again and again the mere exposure of improper business methods has led to their abandonment without any further action.

Bureau Bestricted.

But now the work of the bureau of corporations is necessarily restricted to a comparatively small scope. The control of the federal government should be broadened into a general constructive system based on these tested principles of supervision, publicity, and recoveration.

**Upon Every Bottle** 

And Wrapper of the Genuine Dr. Bell's Pine-Tar-Honey

is printed the above design and the number 506. The design is our trade-mark, and 506 is our guaranty number. The medicine contained in such bottle

will oure Coughs, Colds and all Bronchial

twoubles more quickly and effectually than any other remedy.

DR. BELL'S

THE E. E. SUTHERLAND MEDICINE CO.

become an accomplished business fact. Finally, supervision must be administrative. No other method has the necessary flexibility. Business cannot be regulated properly by the slow methods of judcial procedure. The administrative system places the whole great subject in a branch by itself, to be handled by a permanent office organized and trained for that purpose. It makes the control active, positive and constructive, not leaving it to the bare prohibition of crimical law. become an accomplished business fact

TENTH CARMACK JUROR SECURED

(United Press Leased Wire.) Nashville, Tenn., Feb. 3 .- J. (Special Dispatch to The Journal.)
Washington, D. C., Feb. 3.—Commissioner of Corporations Herbert Knox
Smith has submitted to the secretary
of commerce and labor his annual report. In his report Commissioner Smith Woodruff, a farmer, was accepted as the tenth juror at today's session of trial of Duncan Cooper, Robin Cooper and John Sharp for the murder of ex-Senator E. W. Carmack

> House Passes Army Bill. (United Press Lessed Wire.) Washington, Feb. 3 .- The house yesterday afternoon passed the army appropriation bill, carrying \$97,000,000. An appropriation of \$500,000, which was a part of the bill for the maintenance of a signal corps to experiment with balloons was defeated by a vote of 161 to 90.

With Lawmakers at Olympia, Wash.

Olympia, Wash., Feb. 3.—The Oregon law covering the initiative and referendum is in the balance before the legislature here, and friends of fhe bill are making the effort of their lives to have it reported for passage. The bills before both houses are practically copies of the Oregon law, and there is no serious objection to its provisions. The purpose of the law is the thing objected to by politicians, who see here a most dangerous counterpart for the direct primary law, which has already put out of business in Washington, some of the most estute politicians the state ever boasted of or was ever ashamed of.

Reference is frequently made to the splendid results secured in Oregon by the law across the line, even with the enactment scarcely dry on the statute books. Organized labor in the statute stands squarely behind the proposed reform, and is making the fight for it in an effort to purify politics and prevent domination of legislation by unfriendly interests. The bill will likely be reported to both houses next week.

Olympia, Wash., Feb. 2.—Dr. 8. W.

Olympia, Wash., Feb. 3.—Dr. 8. W. McClure of Pendleton, head of the United States animal industry department for the northwest, is in the city in an effort to secure passage by the legislature of a law requiring the dipping of sheep for scab and providing regulations for the care of livestock. For a number of years the federal government has had this supervision of stock, without the aid of state law, and at times the work has been seriously crippled on that account. In Oregon hundreds of thousands of sheep have been dipped and the scah thus eradicated entirely. In this state the trouble is slight, but laws are said to be needed to prevent the spread of the disease into the large bands of sheep which are to be found in sections of this state.

Dr. McClure will remain here for at least a week. The bill is now in the hands of the committees on livestock.

Campaign for Home Missions,

Campaign for Home Missions,

'Srecial Dispatch to The Journal.)

Atlanta, Ga., Feb. 3.—A notable campaign in the interest of home missions was inaugurated in this city this afternoon under the auspices of the home mission boards of the Evangelical denominations of the United States. The sessions will continue over tomorrow, concluding in the evening with denominational rallies in half a dozen churches. Prominent speakers on the program include ex-Governor Glenn of North Carolina. Joshua Levering of Baltimore, and Bishops Walters, Talbot, Hendrix and Wilson.

## 5.5.5. CURES RHEUMATISH

This is just a short talk on Rheumatism, pointing out its causes and some of the reasons why so many fail to find a cure for this painful, and often far-reaching trouble.

No other disease is more persistent and discouraging than Rheumatism. Those persons in whose blood this painful ailment has taken root, often grow disheartened, and sometimes conclude there is no permanent cure. Patiently they have blistered and rubbed their aching joints and muscles with liniments, oils, etc., and faithfully taken pot-

ash and other mineral salts, only to find when the treatment is left off the disease returns, and usually with increased se-

reach this trouble, while potash and like mineral medicines really add to the acidity of the blood, and this vital fluid, therefore, continually grows more acrid, sour and

weaker. . Rheumatism can never be cured until the blood is purified and built up. S. S. S. thoroughly cleanses and renovates the circulation by neutralizing the acids and expelling

A GREAT SUFFERER FROM MUSCULAR REEUMATISM.

A GREAT SUFFERER FROM MUSCULAR RHEUMATISM.

Bopkinville, Ky.

Bopkinville, Ky.

Gentlemen: It is with pleasure I write to tell you of the wonderful cure I experienced from the use of S. S. S.

For over two years I suffered excruciating pains in the shoulders, caused by Muscular Rheumatism. I kept using liniments all the time, but the pains continued to increase. Finally I decided to try S. S. S., and after using several bottles had no more pain. To make sure, however, I continued to use your medicine so that my blood would be entirely purified. Although this was twelve years ago, I have never been troubled with rheumatism in any form since. I feel so indebted to S. S. S. that nothing I can say would be too high praise for it. With best wishes for the success of S. S. S.

Yours truly.

C. E. WEST.

COULD NOT WALK FOR MONTHS.

Victoria, Texas. Victoria, Texas.

In 1906 I had a severe attack of Rheumatism and my entire system was out of order. For months I was not able to walk. I tried other remedies without benefit and then commenced to take S. S. I took it for a while and saw that it was benefitting me and continued to use it until I was entirely cared of the Rheumatism. I was confined to an invalid chair for eight months at one time, but I have been absolutely free from pain since S. S. S. cured me.

B. H. BORING. DEPRATED PAILURES THEN DELIEF

Mr. Wm. L. Hill, of Winston, R. C., at one time traveling salesman, and well known in North and South Carolina and Virginia, says: "Two years ago my blood was in a wretched condition, and in addition to other bodily aliments I suffered severely from Rheumatiam. After repeated failures to secure relief from the use of other remedies I begun S. S. S., and it acted like a charm. The rheumatic pains left and my general health was built up as well. I have the highest opinion of S. S. S. for it is the only medicine that did me away good." of S. S. S., for it is the only medicine that did me any good." RHBUMATISM ALL GONE.

RHEUMATISM ALL GONE.

Mis. Ida M. Palmer, of the Fulton St., Brooklyn, N. Y., writes as follows: 'I wish you to know what great benefit I have received from the use of S. S. S. I have been afflicted with Rheumatism for twenty years, sometimes being entirely laid up by it and always lame in some part of my body. It grew worse until it was misery to attempt to walk at all; my right knee was nearly twice its natural size and was drawn up considerably shorter than the other one. A friend advised me to take S. S. which I commenced. I had tried so many things that I must say that I had very little faith that it would do me any good but I was willing to try anything that promised relief. Before I had been using it long I was greatly relieved, and continuing the medicine I soon found that I was entirely cured. The lameness and soreness all left, I can straighten, move or bend my leg as well as any one and I have never known what Rheumatism was since. I am 65 years old and fee deeply grateful to S. S. S.'

and corrosive matter in the muscles, joints and bones, the entire body is nourished by rich, healthful blood, which completely and permanently cures Rheumatism. S. S. S. contains no potash, alkali, or any other harmful mineral, but is made entirely of blood-purifying and healing roots, herbs and barks which enrich and freshen the circulation while cur-Cottage Grove is to have a third newspaper. It must have taken a magnifying glass to have discovered a long felt want there.

Having gone thus far, Oregon should make its showing at Seattle a notable want there.

Having gone thus far, Oregon should make its showing at Seattle a notable free to all who write.

THE SWIFT SPECIFIC CO., ATLANTA, GA.

the foreign matter from the system. It strengthens and invigorates the

blood so that instead of a weak, sour stream, constantly depositing acrid

# LANDLORD: CALLED TO NOTIFY YOU THAT YOUR RENT TENANT: NOT MINE GREGORY IS BUILDING ME A HOME IN GREGORY HEIGHTS. GOING TO BE MY OWN LANDLORD

OTE the smile on the tenant's face and the look of contempt on the landlord's. GREGORY has emancipated him from the bondage of rent. GREGORY will do the same for you. See GREGORY HEIGHTS at once. Satisfy yourself it is the place for you. Select your lot, agree upon the terms of payment, either prepare your own plans or select one of GREGORY'S and your home will be started at once. Your monthly payments will be about the same as your present rent. Every street graded; cement walks throughout; Bull run water; no building restrictions. The best streetcar service in Portland. High elevation; pure air; perpetual view of the snow-capped mountains. East Ankeny and Rose City Park cars run every 10 and 15 minutes, all daylong, making the trip out to GREGORY HEIGHTS, via the new line, in twenty minutes.

OUR ONLY OFFICE IS AT GREGORY HEIGHTS



TAKE CAR ANY TIME OF DAY AT THIRD AND YAMHILL