FORDNEY WOULD RUSH

THROUGH PROTECTION

Washington, Dec. 17.—Discussion of proposed emergency tariff legislation to check imports and the decline in prices of wheat and wool, with the possibility of its extension to cover scores of other commodities, was the purpose of a joint conference today of members of the Senate finance and the House ways and means committee. Although members of the two committees appeared to be divided as to how far the tariff program should extend, with some advocating the entire wiping out of the free list of the Underwood tariff act, Chairman Fordney of the ways and means committee said he favored rushing through the emergency protection for wheat and wool and a few other commodities and

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BILL ON WHEAT, WOOL

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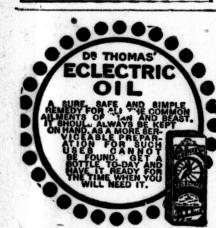
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not sleep. "This lasted nine months when I tried Cuticura Soap and Ointment, and I used three cakes

and Ointment, and I used three cakes of Scap with two boxes of Ointment when she was healed." (Signed) Mrs. Oscar Pillon, Amherstburg, Ontario, May 7, 1918.

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To Port Stanley—†\*6:10 a.m., \*12:20, \*5:20, 9:20 p.m.

\*Limited between London and St.

### MODERN PUBLIC HEALTH

(University Extension Board of Western University.) BY H. W. HILL, M.B., M.D., D.P.H. Director. Institute of Public Health of Western University, London,

A Column Devoted to Public Health In All Phases. Questions Addressed as Above Will Be Welcomed.

DOES DISEASE CAUSE GERMS? A university student who likes to think for himself asks how we can think for himself asks how we can prove that germs cause disease—how do we know that disease does not cause germs? He admits that in a given disease, say typhold fever, we may always find a certain kind of germ which we call the typhoid bacillus; but he claims that we have no right to say that therefore the typhoid bacillus caused the disease. He points out that in beils we may find pus, but we do not therefore infer the pus causes boils. Rather we say that the boil causes the pus. If a boil can cause pus, which is made up of little living and dead particles, why cannot it cause also other little living and dead particles of a different kind, which we call germs?

of a different kind, which we call germs?

NEVER INVESTIGATED.

This question has been asked many times in years gone by. Twenty years ago the contention that germs were, like pus, merely by-products of disease, and not the cause of the disease at all, was maintained by a famous Harvard professor very emphatically. However, he had never investigated for himself, or he would have found some very difficult points to meet, if he wanted to prove his position. He would find, for instance, that the very first disease germ definitely discovered was the germ of anthrax, a rather big one as germs go, some of them as much as one-five-thousandth of an inch long. In all cases of anthrax, in cattle or sheep or mon, this germ was found. Of course our Harvard professor would say that anthrax was a disease caused by something we have yet to discover; and that when the disease developed it had, as one of its peculiarities, the ability to generate in the blood of the animal a particular sort of pus or similar substance which we mistake for an independent living thing, and call a germ. But we can go beyond the mere finding of the germ in the animal that has anthrax. We can remove a little of the blod to a tube of beef broth or a tube of milk, or to the surface of a cooked potato (all carefully sterilized first. of course). We keep the beef broth or milk or potato at body heat for 24 hours or so, and then we find the beef broth quite milky in appearance, whereas before it was quite clear. On examining a drop of this now cloudy liquid under the microscope we find it teeming with germs just like those we found in the blood of the anthrax animal. The drop of blood of the animal itself has disappeared—diluted tremendously, of course, by the broth into w NEVER INVESTIGATED.

gone also—broken down and destroyed.

FIND SAME THING.

If we examine the milk we find the same thing. The potato shows on its surface a thick creamy smear quite visible to the naked eye; and on placing a little of it under the microscope we find that it also is composed of millions and millions of the same germ. The pus and blood we put on the surface of the potato at the same time, the night before, is gone or represented by a few broken-down cells, mere debris.

But, says our Harvard professor, "What does that prove, except that the disease produced something—call it a germ, if you like—that will grow apart from the body? It does not prove that the germ caused the disease."

All right. Let us now take a tiny

prove that the germ caused the disease."

All right. Let us now take a tiny speck of that growth from the potato or a tiny drop of the milk or the broth, and with a hypodermic needle put it under the skin of a cow or a sheep or a guinea-pig. In a very short time the animal becomes sick, and develops all the symptoms that the stockman or farmer who has suffered from the presence of anthrax amongst his animals will identify at once as the dreaded disease. No need, in the countries of Europe or South America, where this disease is prevalent, to call a veterinease is prevalent, to call a veterin-arian to make a diagnosis. With thousands of head of cattle and sheep dying at a time, everyone

who has to do with them recognizes what is wrong very promptly.

HOW IT WORKS.

Well, we have now produced the disease in a healthy animal by using this germ. How is that for froof? "No," says the Harvard professor, "what you really did was to transfer to your broth, your milk, or potato the germ—true enough—but also some pus or blood, and that contained not only the germ, which is a mere by-product of the disease, not only the blood cells and pus cells, which died and broke up in the broth or milk or potato—it contained the real cause or polson of the disease too. When the germ grew and you removed some of it to a healthy animal, you removed also some of that other unrecognized disease-producing substance as well; very little, truly, but enough to produce the disease."

All right. Instead of putting some

ing substance as well; very little, truly, but enough to produce the disease."

All right. Instead of putting some of our potato-growth of anthrax germs into a cow or a sheep, let us merely transfer a tiny speck of the growth to another potato. Let us note just where we touched the potato with our pin-point transfer needle. Next day we have a growth from that pin-point as big as a five-cent piece—perhaps as big as a quarter in three or four days. Let us take a tiny speck from the very edge of this, as far from where the growth began as possible, and put it on another potato. When that has grown as big as a quarter, take from the edge again to another potato—and so on and on, a hundred times if you like. Surely by this time we must have "lost in the shuffle" that other mysterious disease-breeding thing that the Harvard professor thought was there in the original blood or pus. Surely so—yet when we take a speck of growth from the last of the 100 potatoes, and put it into a cow or sheep or a guinea-pig, there comes the same old attack of anthrax—the animal sickens and dies just the same as ever.

TRY A PARABLE.

Do you follow all this? Let us try a parable. Suppose a savage, who knew nothing of rifies or bullets, going through the forest one day was deeply wounded by a stray bullet from a far-off white hunter. The wound inflames and the savage dies. His friends examine this strange disease. They decide that it is a new kind—one that produces a hard conical lump \( \text{N} \) the hole it makes, as well as pus and blood. They think the bullet and drives it into a cow's leg, producing a similar hole, and pus and blod. But his friends argue that that does not prove the bullet made the bullet hole call it proves is that something that the investigative savage took over without noticing it from the original wound, with the bullet, when he

was associated with the bullet did it, not the bufflet itself; something that the investigative savage took over without noticing it from the original wound, with the bullet, when he extracted it. But, not to be beaten, the investigative savage makes some new bullets, that have never been near the dead man, and produces similar bullet holes with those. Then what will his friends say?

PROVES NOTHING.

Do you know what our friends say when confronted with the proof given above that germs cause disease? They say: "That proves nothing. You made up your mind that the germ you have grown is the cause; you then, with your mind fully set on this, put the germ into an animal, and your mind compels the disease to develop." Isn't that simple?

If anyone who could do that has bally hove to deal with he

the disease to develop." Isn't that simple?

If anyone who could do that has a balky horse to deal with, he ought to be able to "set his mind" hard enough to get the horse to go. Surely if he can produce disease by willing it, he ought to be able to merely start a balky horse without any other help!

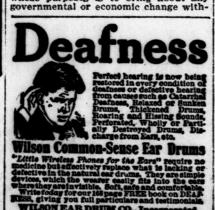
Intelligent and educated people have soberly argued as above—about disease. Yet how about a bullet wound? Does a man get killed by a bullet merely because the man who fired the bullet "willed" it to kill

fired the bullet "willed" it to kill him?

Next week I will try to show how this "argument" is met.

#### Apathy at Ottawa Is Preventing Passage of Advanced Legislation

"Law comes to the aid of those who are awake, and not of those who sleep." The old Roman maxim applies with singular force to the position today in labor legislation in Canada. Laws passed by the Dominion Parliament since the war reveal the hand of a



[By Mrs. George Hambleton, B. A.] in Canada by use of force, physical injury, or which teaches, advocates, advises or defends the use of force, violence, terrorism or physical injury to person or property, or threats of such injury, in order to accomplish such change or for any other purpose."

labor legislation in Canada. Laws passed by the Dominion Parliament since the war reveal the hand of a small, visitant group, active in preventing any suggestion of a procreasive legislation, always fertile in data the preventing any suggestion of a procreasive legislation, always fertile in data the preventing in favor of the labor principles laid down in the treaty of Versalliesprinciples which received the approval not only of Canadian plenipotentiaries at the peace conference, but the approprinciples which received the approval not only of Canadian plenipotentiaries at the peace conference, but the approval not only of Canadian plenipotentiaries at the peace conference, but the approval not only of Canadian plenipotentiaries at the peace conference, but the approval not only of Canadian plenipotentiaries at the peace conference, but the approval not only of Canadian plenipotentiaries at the peace conference, but the approval not only of Canadian plenipotentiaries at the peace conference, but the approval not only of Canadian plenipotentiaries at the peace conference, but the approval not only of Canadian plenipotentiaries at the peace conference, but the approval not only of Canadian plenipotentiaries at the peace conference, but the approval not only of Canadian plenipotentiaries at the peace conference, but the approval not only of Canadian plenipotentiaries at the peace conference, but the approval not only of Canadian plenipotentiaries at the peace conference, but the approval not only of Canadian plenipotentiaries at the peace conference, but the approval not only of Canadian plenipotentiaries at the peace conference, but the approval not only of Canadian plenipotentiaries at the peace conference in the plenipotential plen Law is Vague.

What is the meaning of those vague words "force" and "terrorism"? What is an "economic or industrial change" within the meaning of the statute? Any

The simple fact is that the Dominion Government assumed a moral obligation at Washington, an obligation which the provincial governments are in no mood to take over. Provincial administrations no doubt feel that if representatives of the Dominion Government want to play a grandiose part in international conferences, gaily accepting serious obligations thereby, the Federal authority must itself pay the piper. Ever more pressing becomes recognition of its duty by the Dominion Government. The well-being of the weakest, the unorganized members of the

It is strange to think that in Ontario today the legal work day for women and girls is still ten hours, and that the ten hours may at times be increased to twelve hours and a half—and 72½ hours a week. Reform is surely overdue. The recent education act of Ontario, devised to ald and educate girls and youths earning their living, between the ages of 14 and 18 years, is also designed to reduce the working hours of these young people. But there are still cases where this education act does not apply, in that the proper education facilities have not yet been established in all factory towns. So even still the girl of 14 or 16 years may on occasion work 12½ hours a day and 72½ hours a week. The hours who facilities have not yet been established in all factory towns. So even still the girl of 14 or 16 years may on occasion work 12½ hours a day and 72½ hours a week. The hours who haded together yesterday for concerted action to aid the United States farmers.

GENERAL STRIKE IS

CALLED AT HALLE

London, Dec. 17.—A general strike has

not yet been established in all factory towns. So even still the girl of 14 or 16 years may on occasion work 12½ hours a day and 72½ hours a week. The hours are too long, not only for girls, but for women. And it is always the young, the unorganized, the unfortunate, on whom the burden falls. The public conscience must soon demand action.

Are Hesitating.

But, embarrassed by the actions of the Dominion Government, perhaps, provincial authorities hesitate. In view of its international obligations, it is the plain duty of the Dominion Government to call a conference of the provincial governments at once to see if some common action cannot be taken to shorten the work day, especially of women and children. Merely referring the Washington conventions to the provinces—with the possibility of indefinite legal quibbling—is not enough. There must be definite action. If the health of women and young girls is of value to the state, then the 72-hour week must be forbidden by force of law. And such an inter-provicial conference could discuss not only the eight-hour day convention, but all the other conventions adopted at Washington.

Without some such sincere though belated effort to discharge its duty, the Canadian Government will cut a sorry figure at the next international labor conference called by the League of Nations.

FORDNEY WOULD RUSH

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HERE are four riddles for boys and girls with wise heads. We told the artist to draw the pictures to represent the riddles, but he guessed the right answers—and put them in too!

So we barred him from the contest and told him a few of the boys Have Done YOU Can Do Here are the names of only few of the boys and girls to to keep it a secret. Luckily, he got the answers all jumbled up, so you won't be any the wiser.

If you can unscramble the jumbled letters beneath each riddle picture and put them in their right order to spell the right words, you will have the right answers. It isn't an easy task. Good

whom we have already award-ed big prizes: ed big prizes:

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thinking, patience and perseverance may find you the answers. Try it.

If you think you have found the answers, write them carefully on a sheet of white paper. Put on nothing but your four answers and your name and address in the upper right-hand corner of the page. Handwriting, spelling, punctuation and general neatness will count if more than one answer is correct.

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