For all this, farmers continued to observe that certain plants, particularly of the leguminous tribe, such as clover, lucerne, sainfoin, and some others, instead of exhausting the soil, seemed to enrich it, so that, even after the leaves A drummer for a city hardware house and stems had been cut and carried away, the roots alone, left in the ground, | said : sensibly increased its fertility. Analysis showed that these roots contained a considerable quantity of nitrogen. If, according to Boussingault, Lawes, Gilbert and others, it was impossible that this nitrogen should be derived from the atmosphere, it must be drawn from nitrogenous matters in the soil. The inference would be, in this case, that in his hand and inquired for the drumnitrogenous manures would be beneficial mer and said: to crops requiring so much nitrogen for their growth; yet it is well known to farmers that these plants not only derive no benefit from nitrogenous fertilizers, but are injured by them, while, although through the nitrogen contained in their roots they improve the soil mer opened the box, and we saw his greatly for succeeding crops of other | hair trying to climb up. plants, they injure it for themselves; and leguminous crops, cultivated too long in the same ground, become sickly. It was not until a few years ago that science and observation were reconciled, by the persistent investigations of MM. Hellriegel and Willfarth, who demonstrated beyond question that the leguminosæ do, in growing, absorb large quantities of nitrogen from the air, but with the singular condition that the absorption of nitrogen begins only with the appearance of a diseased state, which is marked by the development of tubercles, about the size of a millet seed, on the roots, and is, apparently, caused by minute animals, which are always found in the tubercles, and seem to give the plant the nitrogen-absorbing power. Further investigations showed that the young, healthy plants lived on the nitrogen already contained in the soil, and that it was not until this was exhausted, and the plants began to suffer, that the nitrogen-absorbing excrescences made their appearance; and proved, also, that the tiny inhabitants of the tubercles were, as a rule, confined to one species of plant, the acacia microbe, for example, refusing to live on the bean, or the clover microbe on the lentil.

It is evident that a plant capable of absorbing nitrogen, which is a costly as well as indispensable adjunct to farming, and of storing it up in the soil for its master's profit, is a valuable posses sion; and, as only diseased plants have that property, it is obvious that it is desirable to spread the nitrogen-storing disease. With this view, several skillful farmers in France and Germany have, within the past two or three years, been trying experiments, by "vaccinating," as they say, fields of leguminous plants, by sprinkling them with earth in which tuberculous plants have been growing, or water in which they have been soaked; and the results have been extraordinary. Analysis has shown that a single crop of tuberculous leguminosæ, if the tops are ploughed in, adds to the soil from five to twelve thousand pounds of nitrogen, worth from eighteen to forty-five dollars, to the acre; and even when the tops are cut and carried away, there is enough nitrogen left in the roots to insure a good crop of cereals on the same ground the next season, without other fertilizer. In 1890, a tract of old, peaty soil was "vaccinated" with a ton and a half to the acre of earth from

peaty soil was treated with half a ton to the acre of sand, from a field which had Some of the most extraordinary agri- borne a crop of "serradelle," a small pounds to the acre of atmospheric pitrogen, was ploughed in, as green manure. ever, to have been obtained in Prussia, tivation was divided, and part vaccin-

#### Cured His Colic.

A few nights ago, on a train coming east on the Michigan Central road, the porter of a sleeping car aroused half a dozen of the male sleepers to ask if they had anything to cure a case of colic. fumbled around in his coat and finally

"Here's a box of soda mints which may help him. He can use the whole box and be hanged to him, for he's no business to have colic!"

Nothing farther was heard of the case until morning, when a strapping young man, with a far West look to his hair, came into the sleeper with the mint box

"Took 'em all but one and they smashed my colic right in the eye. How much to pay?"

"Nothing, sir. I'm only too glad to have been of service to you." When the other had gone the drum-

"Great Scott, boys, but what do you

think ?" he gasped. "What is it?"

"I gave him the wrong box, and he's swallowed eleven bone collar buttons." -Detroit Free Press.

#### To His Best Knowledge.

A lawyer was cross questioning a negro witness in one of the justice courts the other day, and was getting along fairly well until he asked the witness what his occupation was.

" I'se er carpenter, sah."

"What kind of a carpenter?" "They calls me a jack-leg carpenter,

"What is a jack-leg carpenter?" "He is a carpenter who is not a firstclass carpenter, sah."

"Well, explain more fully what you understand a jack-leg carpenter to be," insisted the lawyer.

"Boss, I declar' I dunno how ter 'splain any mo' except to say hit am jes de same diffunce between you an' er fust-class lawyer."

The negro was one of the old-fashioned kind, and did not mean to be insolent or impudent, but had just decided in his own mind that the lawyer asking the question was not a first-class lawyer.

It is needless to say the questions ceased at once .- Macon Telegraph.

Brown-What tobacco do you smoke most of now. Bunker-Other fellows'.

Mrs. Hicks-Are you sure that you married me for myself alone?

Hicks-Of course. Having your mother to live with us was not strictly an idea of mine.

In connection with the Chinese oath a story is told of a representative of the Middle Kingdom who once appeared to give evidence at Bow street. He was politely consulted as to the method in which he would prefer to be sworn. "Oh," said he, with a breadth of outlook not common in Sir John Bridge's court, "Kill 'im cock, break 'm plate, smell 'm book, all samey."

An animated discussion, punctuated with objurgation, recently took place in a town council in the north. Finally one of the disputants gave the other the lie direct. The latter made a plunge at him, and as the pair came to grips, the a diseased field. Besides this, five hun- first exclaimed: " I reiterate that you dred and twenty pounds to the acre of are a liar." Whereupon the other rescorize from a dephosphorating furnace marked: "Oh, it that's the case I were spread over the ground, and about accept the apology. If a man says he a thousand pounds to the acre of kai- reiterates, that is all any gentleman can nite, but very little nitrogenous manure. ask." Accordingly he relaxed his hold, The tract was then sown with clover, and is still unable to account for the which produced nearly three tous of hay roars of laughter which greeted his obto the acre. The next year, a virgin servation .- London Globe.

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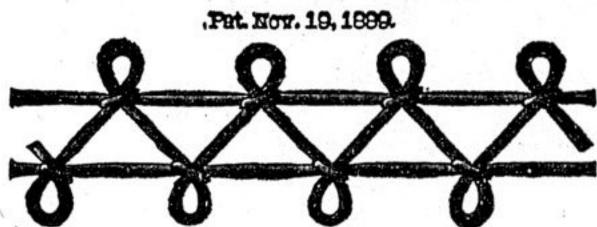
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## JOS. HEARD.

#### BACK AGAIN.

HENRY

respectfully informs his numerous old customers and the public generally that he has returned to Fenelon Falls and resumed

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## NOTICE.

#### To the residents of Fenelon Falls. Take notice that any person or persons

removing from any village or district infected with diphtheria to Fenelon Falls will be quarantined for a period of 14 days or longer, a the discretion of the Board of Health. The citizens of Fenelon Falls who do not wish to be so inconvenienced will govern themselves accordingly. By order of the Board of Health.

A. WILSON, M. D., Medical Health Officer Fenelon Falls, Feb'y 22nd, 1893. 1-t. f.

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