Perpetual Motion.

When George Stephenson was asked, "Do you believe in perpetual motion?" he replied, "Yes, if you lift yourself by the waist-band of the trousers, and carry yourself three times round the room."

Just so, and a woman would just as soon believe that she has not to pay dearly for common premium Boaps, in the low quality of soap, In ruined hands and clothes. She would be kept in perpetual motion trying to do with common soap what she could so easily do with Sunlight Soap-Octagon Bar. 216

SMALLOW CULTIVATION AND ROTATION.

By J. H. Grisdale, Agriculturist, Experimental Farm, Ottawa.

For many years farmers in Easten Canada were grain growers merey. Necessity forced the inception of such a system of agriculture. Habtand ignorance prolonged the practice of such farming. The wonderlul strength, and seemingly inexhaustible fertility of the soil made its long continuance possible. The dis-, covery of the possibilities of the Northwest and the gradual exhauslion of our fields called a halt. Hence, for some years past change has been in the air.

Live stock farming, the system making the smallest demands on soil fertility, 'is rapidly supplanting grain growing. Parts of nearly every farm are now much better in condition than they were a few years ago; and, further, such is nature's worderful recuperative power, since the partial cessation of the tre- packets. mendous drain of grain exportation the average crop returns for Eastern Carada have gone up very considerably. But, as every farmer knows, even live stock farming long contility unless considerable food other ity. perly cared for and utilized.

verdict.

found to give good results is where most rapidly and most effectively. again harrowed, care being exercised layers.

HE SEEMS ABLE TO PROVE THE TRUTH OF WHAT HE SAYS.

Mr. Chalker Makes Some Very Strong Statements - Explains That He is Prepared to Prove the Truth of Every Assertion He Makes.

Housey's Rapids, Ont., Sept. 22 .-(Special)-Mr. George C. Chalker, a well known resident of this place. has authorized the publication of a letter containing some very startling statements.

Those who know Mr. Chalker will not ask any proof of the truth of any statement he makes, but to convince those who do not know him, he has announced that he is prepared to substantiate in every detail, the truth of his published statement, which is as follows :-

"It is with pleasure that I certify to the merits of Dodd's Kidney Pills. "I was laid up with Kidney Trouble and was so bad that I could not do a day's work. My back was very sore, I had heavy aching arms, duli bloated eyes. I was very weak and much reduced in weight.

"After I had used six boxes of Dodd's Kidney Pills I was ten pounds heavier. I often wonder about the powerful virtue of this ments of rapid, rank and desirable about what Dodd's Kidney Pills are said to cure but I know a great "don't about what they will actually long practice seem to prove that

Trouble, and I can prove it. ago, and I still enjoy good health." ductivity" of our fields. This, is, indeed, a very strong testimonial for Dodd's Kidney Pills and one which will have very great weight with all who have the pleasure of Mr. Chalker's acquaintance

or friendship. out doubt, the most popular family are 4 acres of forest to every in- spun out of a single pound of cotmedicine.

grain is sown, the soil is ready for seeding at a considerably earlier date than where late fall plowing is practised.

derive a sufficient

If along with this system of shallow cultivation a proper rotation is adopted, most excellent results are sure to follow. As clover is the only crop which, while giving a profitable harvest still serves to enrich rather than to impoverish the soil, it is evident that clover should take offered, as follows:

Three-year rotation-(1) grain, (2) the chief clerk tells me." clover hay, (3) pasture.

Three-year rotation - (1) corn and roots, (2) grain, (3) clover hay. so I have to go and do it." Four-year rotation - (1) orn and roots or pease, (2) grain, (3) clover hay, (4) hay or pasture.

Five-year rotation - (1) grain with 10 lbs. clover seed to plow down for fertilizers, (2) corn and roots, (3) grain, (4) clover hay, (5) hay or pasture.

and the use of such short rotations remedies without effect. I was alas given above is to increase the most giving it up, when a book was

Tea the world produces, and is sold only in lead

Black, Mixed and Green. apan tea drinkers try "Salada" Green tea

tinued means a gradual loss of fer- chief factor making for soil fertil-

than that produced on the farm is Dead vegetable matter exposed to fed to stock and the manure pro- moisture and warmth soon breaks down to a form called humus or This fact has led to a study of the black earth, the factors above menmethods for cheaply restoring lost tioned. Our prairie and newlyfertility and profitably cultivating cleared soils contain immense quansoils so that "improved, rather than tities of this material. Exposure impoverished" may be the annual to heat and the intermixture of earthy matter serve to waste. Thus, It is impossible to discuss the sub- repeated grain cropping with deep ject exhaustively in such an article plowing provide the conditions best as this, but one plan of cultivation calculated to dissipate this matter

the meadow or pasture is plowed in | The functions of this common, yet August, the sod being turned to a leasily lost, substance are varied and depth of 31 or 4 inches only. Im- important. Being, as anyone can mediately after plowing, if in a dry find out for himself, of the nature of in front of your house this morning, time, the land is rolled, there har- a sponge, it retains the moisture in Worrit; what was the matter ?" "I rowed with a light harrow. It is a dry time, but will allow all su- was discharging the cook." then left untouched until grass and perfluous water to rapidly and harmweeds start to grow when it is lessly percolate to the lower soil

to prevent the sod being disturbed. It holds loose, porous solids to-The harrowing or cultivating pro- gether, and so otherwise loose sands tess is continued at intervals (as become staple and provide a good the weed seeds germinate) until Oc- root hold for plants. It renders dense, tober, when by means of a (3 plow impermeable soils open and porous, gang) double mould-board plow the permitting the free circulation of surface soil to a depth of about 4 air and water and allowing the inches is put into drills about 22 weak rootlets to penetrate the erstnches apart and 8 to 10 inches while impenetrable space in search in the City of Toledo, County and high. This is found to be a most of food. In brief, it is the chief resatisfactory preparation of the soil quirement of good physical condition or corn, roots or grain. Where in our soils. It contains much plant TARRH that cannot be cured by the food, since it is really vegetable use of HALL'S CATARRH CURE. matter, and a large percentage of this food is in available forms. It aids also in the conversion of the non-available forms of the elements of fertility into available forms. Further, it retains near the surface the dissolved plant food which must otherwise have sunk into the sub-

> The most important sources of humus on the average farm are farmyard manure and crop residues. Upon the proper application or use of these materiais depends the future of Canadian agriculture.

ed its location becomes a very important consideration. Now, most of our crops draw the greatest part of their food from the surface soil, for, while some roots of most plants penetrate to a considerable depth, most roots of all plants are near the surface. Plants of nearly all descriptions thrive best where the surface soil is mellow and rich in humus. The great crops produced by newly-cleared fields and prairie lands exemplify this, as does also the rank growth of plants in our forests, where the sub-soil is never stirred, or where the annuals and smaller perennials must depend for their nourishment upon the surface soil almost exclusively. It would, therefore, seem to be clear that available Agent, N. E. Corner King & Yonge plant food should be near the surface of our fields and that our surface soil should be in particularly good physical condition of tilth.

How to secure these two requiremedicine. I do not know anything plant growth must, therefore, be the first consideration of every would-be successful farmer. Experiment and do for Lame Back and Kidney shallow cultivation and some rotation, more especially the three-year "They are worth their weight in or the four-year in dry districts, and gold to any one suffering as I suffer- the five-year in rainy districts, are ed. The six boxes of Dodd's Kidney most serviceable in increasing the Pills cured me completely and there humus in the surface soil, and so has been no return of my old "improving the physical condition"; trouble. That is over three years which means "increasing the pro-

Dodd's Kidney Pills have made sia's total area, or, in all, 4643 many friends and are to-day, with- million acres. In other words, there 4,770 miles of thread have been habitant of Russia.

AN UNIMPORTANT EMPLOYE.

"You have been with that firm a long time," said the old school

"Yes," answered the man with the patient expression of countenance. "What's your position?" "I'm an employe."

"But what's your official title ?" "I haven't any official title. It's a like this. When the proprietor wants prominent place in August rotations something done he tells the cashier, in this country. With this fact in and the cashier tells the bookkeeper, mind, a few rotations suitable for and the bookkeeper tells the assistthe improving of our lands may be ant bookkeeper, and the assistant bookkeeper tells the chief clerk, and

"And what then ?" "Well, I haven't anybody to tell,

London consumes 11 tons of salt

ST. JACOBS OIL For Stiff and Swollen Necks.

Six-year rotation - Same as five Mr. Hooper, 57 Grosvenor street, year, but left one year longer in Belfast, writes :- "Having from a cold got a very stiff and painful The reason for surface cultivation swollen neck, I tried all the usual quantity of and place properly the placed on my counter describing St. Jacobs Oil. I procured a bottle, and had scarcely rubbed it on my neck when I felt better. In a short time the pain left me and the swelling went down. Finding it so good In this case, I then tried it on my ankle, which I had sprained, and which was frequently very painful. I soon had the pleasure of finding that pain also disappear. I must Ceylon Tea is the finest say I consider St. Jacobs Oil of great value:

> A minister made an interminable call upon a lady of his acquaintance. Her little daughter who was present grew weary of his conversation, and whispered in an audible tone : "Didn't he bring his amen with

Stons the Cough and works of the Cold Lazative Bromo-Quinine Tablets cure a cold in one lay. No Cure, No Par. Prica 25 cents.

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AN OLD AND WELL-TRIED REMEDY. - Mrs Winslow's Soothing Syrup has been used for over sixty years by millions of mothers for their children whi e teething, with perfect success. It soothes the child, softens the gums, allays all pain, cures wind colic, and is the best remedy for Diarrhoa Is pleasant to the taste. Sold by druggists in every part of the word Twenty-five cents a bottle. Its value is ir calculable. Be sure and ask for Mrs. Winslow's Soothing Syrup. and take no other kind.

"I noticed a large crowd gathered

Keep Minard's Liniment in the House.

King Chulalonkorn of Siam has 45 globe. other names.

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During the months of September and October, will sell one way second class tourist tickets at greatly reduced rates to California, Washington, Oregon, Utah, Montana, British Columbia and other Pacific Coast points. Tickets will be sold via all direct routes. The Wabash is the shortest, best and quickest route from Canada to the above points. Finest equipped passenger trains in America.

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WHAT A TOREADOR EARNS.

During the last season a popular toreador in Spain took part in 65 fights and killed 133 bulls. His net profit was \$60,000, and the only injuries he sustained were a bruise on his foot and a rather bad wound in the leg. Sometimes one will be badly gored, but a week or two in hospital will generally set him on his legs again.

Lever's Y-Z (Wise Head) Disinfectant Soap Powder is a boon to any nome. It disinfects and cleans at he same time.

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Lady (visiting asylum)-"And these, poor creatures, how came they to be like that ?" Doctor-"Ah, very sad, but they are quite harmless. One was jilted by a lady and lost his reason as a consequence. The other lost his reason through marrying the same lady."

"Little Comet"

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MESSRS. C. C. RICHARDS & CO. Gentlemen,-In June '98 I had my hand and wrist bitten and badly my presence, this 6th day of December, mangled by a vicious horse. I suffered greatly for several days and the tooth cuts refused to heal, until your agent gave me a bottle of MINARD'S LINIMENT, which I benally, and acts directly on the blood gan using, and the effect was magiand mucous surfaces of the system. cal. In five hours the pain had ceased, and in two weeks the wounds had completely healed and my hand and arm were as well as ever. Yours truly,

> A. E. ROY. Carriage maker, St. Antoine, P. Q.

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