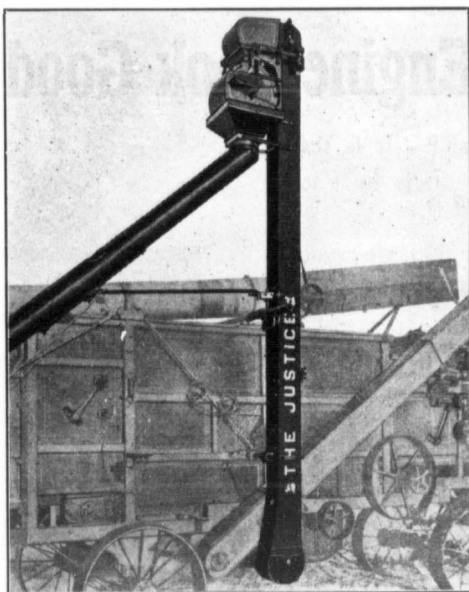




Whiteford Justice Bagger and Measure

Is not only the **Best Threshing Machine Bagger** that has ever been produced, but it is **The Only Reliable Check** that can be conveniently used in threshing operations and **no grain shipper can afford to do without one.**

The best advertisement of its **Money Saving Points** is the fact that **so many Western Farmers and Threshermen** are using it and are sending their testimony broadcast as to its effectiveness and value.

It is a **Government Standard Machine, accurate to a fraction and cannot lie.** There is **no guess work.** It cuts the line at the **Clear point of cleavage between right and wrong.**

Measure attachments supplied to fit any Bagger.

The Engine's Vital Spot is the Valve

Ninety per cent of all Engine trouble is due to lack of oil in the valve and Cylinder. There is no part of the



Engine that has worried the operator so much as the **oiling apparatus.** These troubles are overcome by using a

McCULLOUGH PRACTICAL OIL PUMP (Either direct or sight feed)
SIMPLE STRONG DURABLE POSITIVE PRACTICAL

Send for description booklet to the Sole Canadian Manufacturers

The Virden Manufacturing Co., Limited
VIRDEN P. O. BOX 678 MANITOBA

New Implements that Are Good.

THE CORRUGATED ROLLER.

Much of our crop land will need rolling in the very near future. There is no type of roller more generally suited for this kind of work than the corrugated roller. It is practically a new type and is not so well known as it should be. For crushing clods and pulverizing a plowed field, it hardly has an equal. It does not tend to push clods down into the loose earth without crushing them like the smooth faced roller.

Again, it leaves the ground surface rough or corrugated, which prevents the ground from blowing to any great extent. The smooth faced roller leaves the surface in a good condition to blow. The smooth surface is also favorable to the greatest amount of evaporation. The corrugated roller is a very good implement for breaking crusts or packed surfaces. This implement is usually made of cast iron and, on account of its great weight, is expensive.

The Farm Mechanics Department of the Colorado Agricultural College made a corrugated roller last year out of cement, which answered the purpose just as well as a cast iron one, and showed no signs of wear at the end of the season. The cement roller costs less than one-third that of the cast-iron one of the same weight.

THE TWO-WAY PLOW.

This type of plow has recently

been thoroughly tried out on the Colorado Agricultural College farm; the results have been very satisfactory. The two-way plow has not been generally used, in fact, there are only a few companies manufacturing it at present.

By using this type of plow all the plowed land is kept in one body. A right hand plow is used

at once. Other advantages of this plow are:

It leaves no back furrows or dead furrows in the field; thus the ground is practically as level after plowing as it was before. The horses do not have to walk on the plowed ground at the corners and ends. No time is lost at the ends.

One horse does not have to walk

harrowed or pulverized as fast as it is plowed.

The farmer knows that there is no time when plowed ground will pulverize better than immediately after it has been turned. At this time no moisture has escaped, and by harrowing at once the ground is not only better pulverized, but is placed in a condition to conserve the moisture better.

By using this attachment in connection with the plow, two field operations are performed at once. The field is harrowed as fast as it is plowed and the crop can be planted at once.

By harrowing at this time less horse power is required to put the ground in good condition. Ordinarily less than one half of the energy of one horse is required to pull the harrow attachment.

H. M. BAINER,
Colorado Agricultural College,
Fort Collins.

The above was written for Colorado and of course will have to be applied to Western Canada as conditions warrant.—Editor.



A Geiser Outfit at work, consisting of a Geiser Sieveless Separator and Geiser Gasoline Engine

in going across the field in one direction, the plow is turned squarely around at the end, and a left hand plow is used in coming back, all furrows being turned in one direction. Thus it will be seen that two plows, a right hand and a left one, are both carried on the same frame, only one of which is used

in the furrow all the time. All the plowed land is always in one body.

THE HARROW ATTACHMENT FOR PLOWS.

The harrow attachment is made to be used in connection with the plow, usually of a sulky or gang type. By its use the ground is

Through her grand mistress, the Czarina has issued orders that the ladies of the Russian court must not smoke. She will not tolerate as a lady-in-waiting a woman carrying the odor of smoke on her breath or in her clothing. This is a revolution in Russia, where smoking is common among women. The Czarina holds that a cigarette in a woman's lips is as vile as an oath on the lips of a man.