

E. A. A. PAVY.
ADJUSTABLE COMB FOR GRAIN STRIPPING MACHINES.
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955,098.

Patented Apr. 12, 1910.

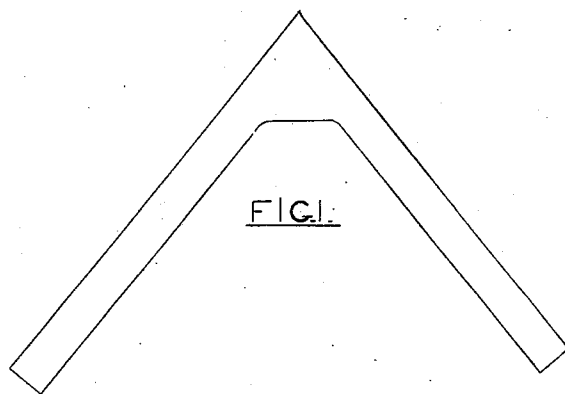


FIG. 1.

FIG. 4.



FIG. 3.

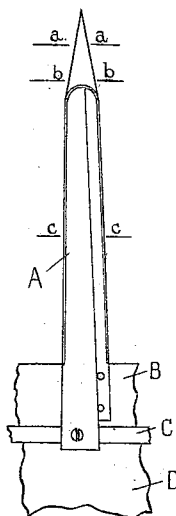


FIG. 2.

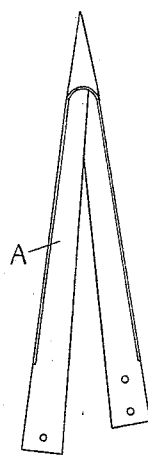
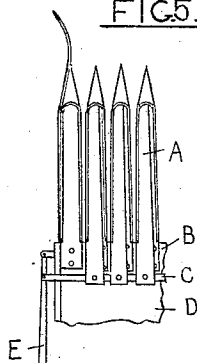


FIG. 5.



WITNESSES

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ERNEST ALBERT ALDINGA PAVY, OF NORTH PARADE, JAMESTOWN, SOUTH AUSTRALIA, AUSTRALIA.

ADJUSTABLE COMB FOR GRAIN-STRIPPING MACHINES.

955,098.

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To all whom it may concern:

Be it known that I, ERNEST ALBERT ALDINGA PAVY, mechanic, a subject of the King of Great Britain and Ireland, residing at North Parade, Jamestown, State of South Australia, Commonwealth of Australia, have invented a certain new and useful Improved Adjustable Comb for Grain-Stripping Machines, of which the following is a specification:

This invention relates to an adjustable comb for strippers and stripper harvesting machines in which the adjustment is made by increasing or decreasing the width of the individual teeth.

The purpose of it is to enable the comb to be quickly adjusted to take a heavy or a light crop and also to enable a choke to be quickly and easily cleared.

In order that my invention may be clearly understood I will describe the same with reference to the accompanying drawings in which—

Figure 1 represents the piece of spring steel bent and stamped out ready for bending into form. Figs. 2 and 3 represent the complete and shaped tooth. Fig. 2 shows it unattached, Fig. 3 shows it attached in position. Fig. 4 shows a series of cross sections on the lines *a a* *b b* and *c c* respectively of Fig. 3. Fig. 5 represents upon a smaller scale portion of a comb showing the slidable bar to which the teeth are pivoted and the means for operating same.

The invention relates particularly to the construction of the tooth and to its attachment to the comb bar and to a slidable operating bar.

The tooth A is formed from a strip of spring steel. This strip is heated at about its center and bent into the form of a V, the material being thinned out outwardly to a fine edge to form the apex of the V as shown in Fig. 1. This flat piece of material is then bent round at the center the two limbs of the V being brought into contact, the one partially overlapping the other, the thinned out apex or center portion of the strip forming a conical thimble or point to the tooth with an overlap along the underside. The outer edge of each limb is curved upward so as to give the tooth the usual fluting. Each tooth is formed from the one piece of spring steel, the adjustment of the one limb over the other being obtained

through the spring thimble. The spring thimble is so set and tempered that when the tooth is unattached the two limbs stand somewhat apart at the heel end as shown in Fig. 2. The heel of the one limb is riveted or bolted to the comb bar B. The heel of the other limb is pivoted to a bar C, slidable in a space between the back of the comb bar and the front of the apron D, the upper face of such bar being on a level with the upper face of the comb bar and the apron.

All the teeth A are attached to the one slidable bar C, which projects beyond the end of the cheek adjacent to the driver and is provided with a handle E whereby the bar may be adjusted to the desired position. By moving the slidable bar the spaces between the teeth are adjusted according to the nature of the crop. If the crop is heavy the bar is adjusted to increase the overlap of the two parts of each tooth thereby increasing the spaces between the adjacent teeth. If a lighter crop is met with the bar is adjusted to decrease the overlap of the two parts of each tooth thereby decreasing the spaces between the adjacent teeth. Should a choke occur the spaces between the teeth are increased and the choke freed, after which the teeth are adjusted to their normal width.

Having now fully described and ascertained my said invention and the manner in which it is to be performed I declare that what I claim is—

1. An adjustable comb for grain stripping machines comprising, a series of spring steel teeth each having two partially overlapping limbs connected together at the forward end by a thimble integral therewith, a comb bar to which one limb of each tooth is rigidly secured, a slidable bar to which the other limb of each tooth is pivotally secured situated between the comb bar and the apron and having its upper surface level with the upper surface of same, and a handle whereby the slidable bar may be adjusted, substantially as described and for the purpose set forth.
2. An adjustable spring steel tooth having two limbs connected together at the forward end by a thimble integral therewith, one of such limbs partially overlapping the other, substantially as described and for the purpose set forth.
3. An adjustable spring steel tooth having

two limbs connected together at the forward
end by a thimble integral therewith, one of
such limbs partially overlapping the other,
the lower one being rigidly secured to the
comb bar and the upper one pivotally se-
cured to a slidable bar provided with means
whereby it may be operated substantially as
described and for the purpose set forth.

In testimony that I claim the foregoing
as my invention I have signed my name in
the presence of two subscribing witnesses
this twenty-fourth day of September 1909.

ERNEST ALBERT ALDINGA PAVY.

Witnesses:

ARTHUR GORE COLLISON,
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