G. BALDWIN.

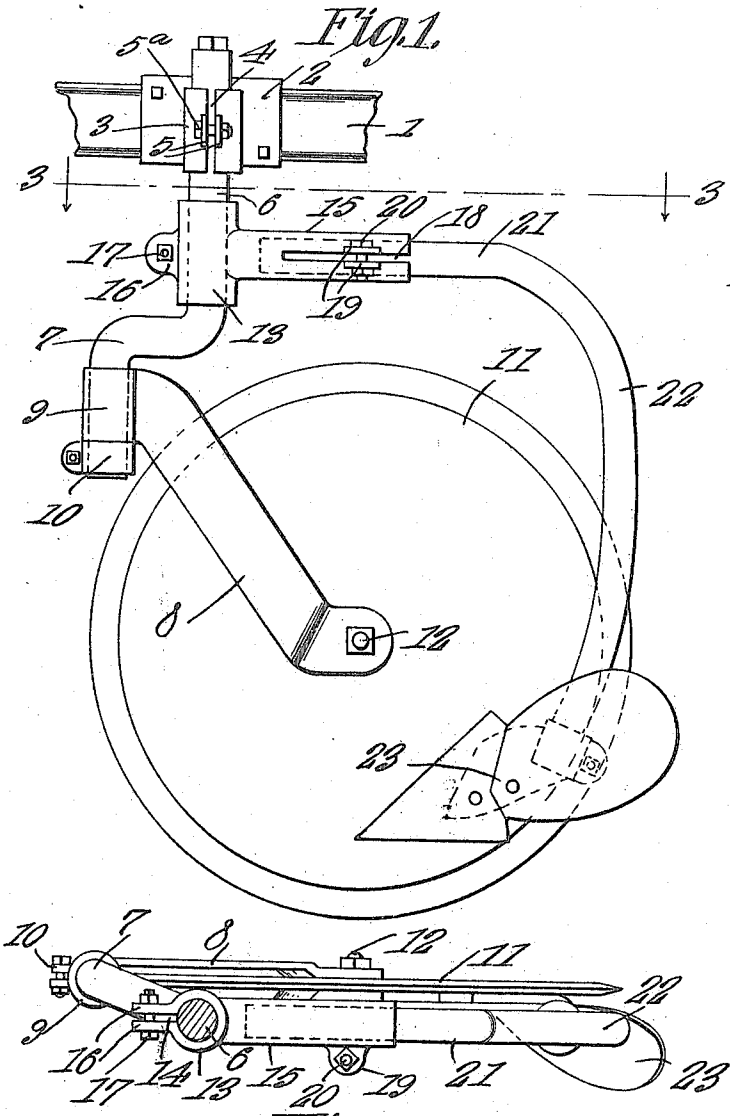
PLOW JOINTER.

APPLICATION FILED JAN. 17, 1916.

1,197,173.

Patented Sept. 5, 1916.

Fig. 1.



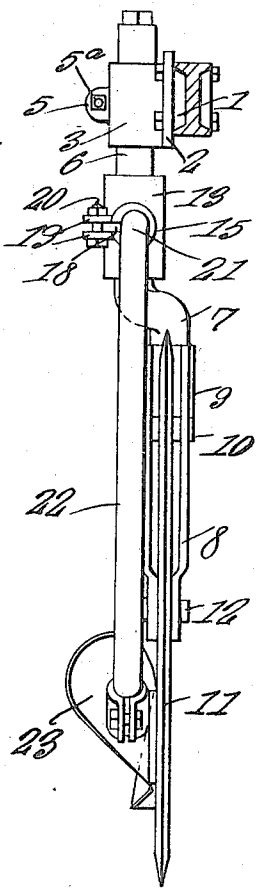




Fig. 2.




Fig. 3.

Witnesses

J. R. Dunlap

R. L. Parker

G. Baldwin, Inventor

by C. A. Snow & Co.

Attorneys

THE NORRIS PETERS CO., PHOTO LITHO., WASHINGTON, D. C.

# UNITED STATES PATENT OFFICE.

GUY BALDWIN, OF MARK CENTER, OHIO, ASSIGNOR OF ONE-HALF TO CHARLIE B. DAVIS, OF MARK CENTER, OHIO.

## PLOW-JOINTER.

1,197,173. Specification of Letters Patent. Patented Sept. 5, 1916.

Application filed January 17, 1916. Serial No. 72,539.

*To all whom it may concern:*

Be it known that I, GUY BALDWIN, a citizen of the United States, residing at Mark Center, in the county of Defiance and State of Ohio, have invented a new and useful Plow-Jointer, of which the following is a specification.

The present invention appertains to plow jointers, and aims to provide novel and improved means for supporting the jointer for coöperation with the colter.

It is the object of the invention to provide means whereby the jointer can be applied to the colter standards of various plows, the present attachment being readily applied and removed independent of the colter, and being adjustable.

With the present device, the jointer is held fixedly in position, and the colter is free to swing with its fork away from the jointer, as when the plow is being turned around at the end of the field, and when the plow is again started down the field, the colter swings against the jointer, the utility of the colter and jointer being well recognized, so that no detailed description thereof is necessary.

It is also within the scope of the invention to provide a jointer attachment which is extremely simple, strong and inexpensive in construction, and which will serve its office in a thoroughly practical, reliable and efficient manner.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

The invention is illustrated in the accompanying drawing, wherein:—

Figure 1 is a side elevation illustrating the attachment. Fig. 2 is a rear view of the device. Fig. 3 is a horizontal section taken on the line 3—3 of Fig. 1 illustrating the attachment in plan.

In the drawing, there is illustrated the beam 1 of a common soil working plow having bolted or otherwise clamped to one side thereof a plate 2, which is equipped with a vertical clamping sleeve 3 having a vertical split 4 at that side remote from the plate 2 with outstanding ears 5 at the opposite sides of the split 4. Said ears 5 are connected by a clamping bolt $5^a$ for clamping the upper terminal of the colter standard 6 in the sleeve 3, said standard 6 being adjustable vertically and about its axis when the bolt $5^a$ is loosened. The standard 6 has its lower terminal offset to one side, as at 7, and a trailing fork 8 has a vertical sleeve 9 at its crotch portion journaled for rotation upon the offset terminal 7 of the standard. The sleeve 8 seats upon the collar 10 secured to the lower end of the standard 6, and a disk colter 11 is mounted for rotation within the fork 8 upon an axle 12 engaged through the terminals of the fork. The colter 11 trails in rear of the standard 6 in the ordinary manner, for splitting the sod in front of the plow (not shown) in the well known manner.

The foregoing parts are common in plows, and the present invention is an attachment applicable to the standard 6. This attachment embodies a vertical sleeve 13 fitted upon the standard 6 above the offset terminal 7 thereof and below the sleeve 3, the sleeve 13 having a vertical split 14 at one side and a radial outstanding tubular socket member 15 which projects rearwardly above the colter. The sleeve 13 has outstanding ears 16 at the opposite sides of the split 14, and said ears are connected by a clamping bolt 17 whereby when said bolt is tightened, the sleeve 13 will tightly embrace the standard 6 to hold the attachment in fixed position below the beam 1. The socket member 15 is provided at one side with a longitudinal split 18 and outstanding ears 19 at the opposite sides of said split connected by a clamping bolt 20 whereby the jointer beam or rod 21 which has its terminal fitted within the socket member 15 can be clamped therein. When the bolt 20 is loosened, the beam 21 can be shifted backwardly and forwardly, and said beam can also be rotated about a longitudinal axis. The beam 21 is curved rearwardly and downwardly, as at 22, and has its lower end secured to the jointer 23 which is properly positioned, with respect to the colter 11, as seen in the drawing. The jointer 23 assists in breaking up the soil in front of the plow, throwing the trash to one side away from the shin of

the plow. It is evident that by adjusting the beam 21, the jointer 23 can be properly positioned.

With the present device, there is no liability for the trash accumulating between the colter and jointer, and the colter is free to swing away from the jointer. This is important when the plow is lifted out of the soil at the end of the field, for turning the plow around, since the colter can swing away from the jointer when the plow is being turned around, and when the plow is again in action, the colter will swing against the jointer into operative position. The colter in swinging away from the jointer will also liberate any trash during the time that the plow is being turned around.

The present attachment is applied to the standard 6 close to the beam 1 in order that the strains to which the jointer is subjected will be transmitted effectively to the beam 1.

Having thus described the invention, what is claimed as new is:

1. The combination with a standard, and a swinging disk colter attached to the lower end thereof, of a beam attached to said standard above and independent of the colter, said beam being curved downwardly, and a jointer attached to the lower end of said beam for coöperation with the colter.

2. The combination with a standard, and a swinging disk colter connected to the lower end thereof, of a jointer beam, means for attaching said beam to the standard above and independent of the colter so that the beam is adjustable in various directions, the beam being curved downwardly, and a jointer attached to the lower terminal of said beam for coöperation with the colter.

3. The combination with a colter standard, and a swinging disk colter connected to the lower end thereof, of a clamp embracing said standard above and independent of the colter and having a rearwardly projecting member, a beam adjustably carried by said member and curved downwardly, and a jointer carried by the lower terminal of said beam for coöperation with the colter.

4. The combination with a colter standard, and a swinging disk colter connected to the lower end thereof, of a clamping sleeve embracing said standard above the colter and having a rearwardly projecting tubular clamping member, a beam fitted in said tubular clamping member for adjustment backwardly and forwardly and about a longitudinal axis, said beam being curved downwardly, and a jointer attached to the lower terminal of said beam for coöperation with the colter.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

GUY BALDWIN.

Witnesses:
ROY SAILER,
E. A. ARMSTRONG.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."