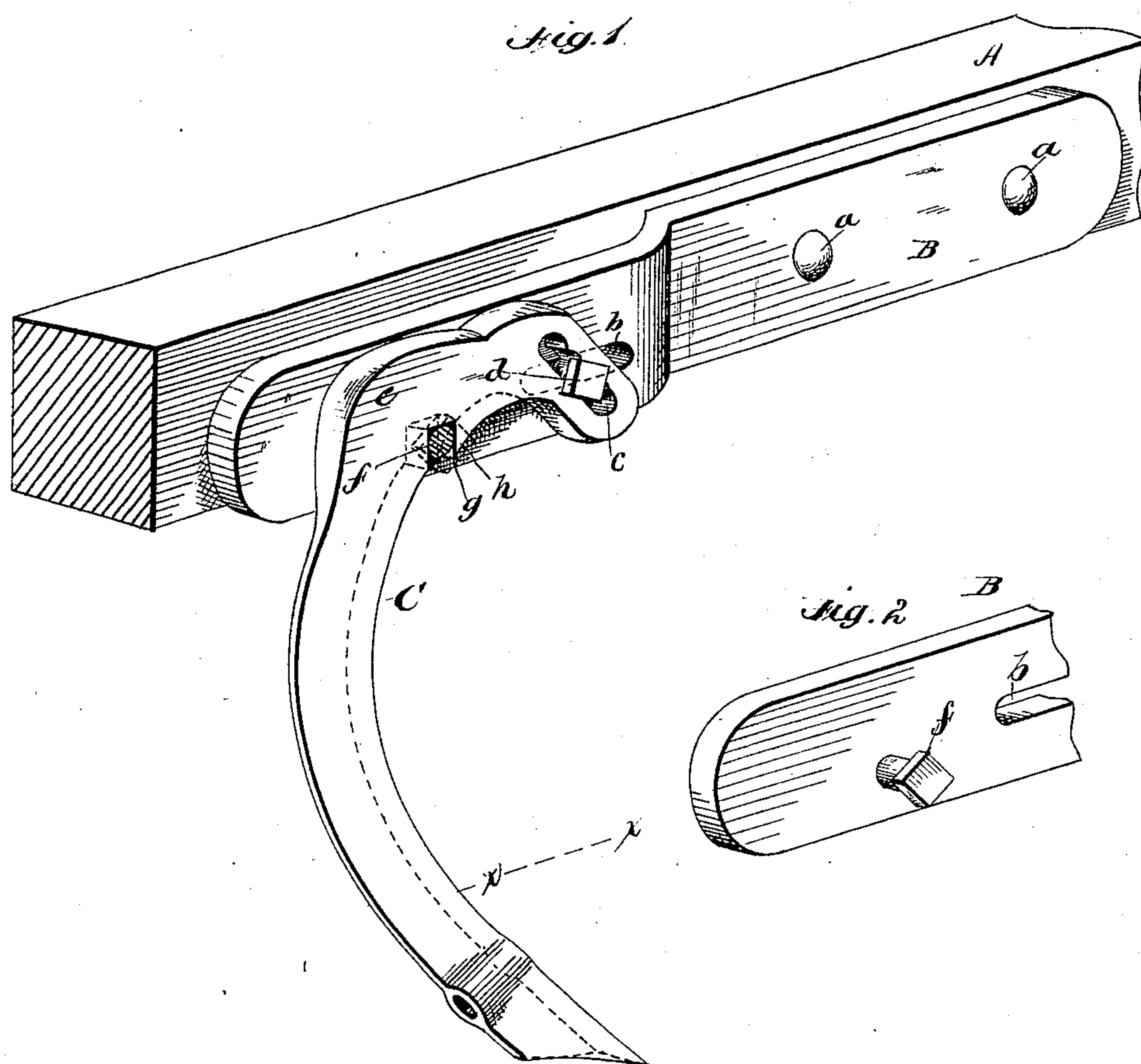


(No Model.)

W. J. DAVIDSON.  
CULTIVATOR.

No. 282,852.

Patented Aug. 7, 1883.



WITNESSES

W. H. H. Knight  
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# UNITED STATES PATENT OFFICE.

WILLIAM J. DAVIDSON, OF BIG SPRING, VIRGINIA.

## CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 282,852, dated August 7, 1883.

Application filed January 4, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM J. DAVIDSON, of Big Spring, Montgomery county, Virginia, have invented certain Improvements in Cultivators, of which the following is a specification.

The object of my invention is to reduce the strain upon the bolts connecting plow-standards to brackets or to the beam—similar, for instance, to those standards shown in my Patent No. 265,763—and also to avoid injury to any part of the plow from an unyielding connection of the standard thereto; and to these ends my invention consists in the improved construction, fully described hereinafter.

In the drawings, Figure 1 represents in perspective a section of a plow-beam provided with a bracket having secured thereto a standard and illustrating my improvement, and Fig. 2 a detail view.

A represents the plow-beam, having bolted at *a a*, or otherwise secured thereto, the bent bracket B, adapted for the attachment of the curved standard C. One end of the said standard has a slot, *c*, which diagonally crosses (when the standard is in position) a longitudinal slot, *b*, in the bracket B, a securing-bolt, *d*, passing through both slots at their intersection. As fully set forth in said patent, the purpose of this arrangement is to lock the standard in any position to which it is adjusted. In the aforesaid patent the slot *c* of the standard was referred to and illustrated as of

uniform width; but in practice I have found that there is sometimes a tendency of the bolt to slip, a difficulty which I overcome by forming the slot with a serrated or roughened side, as shown. In the said patent the retaining-bolt *g* is described as passing through a perforation in the curved portion of the standard, so that the standard is held immovably by the bolt, this subjecting both the bolt and standard at times to great strains. I avoid this straining of the parts by providing the standard with a notch, *f*, which receives the bolt *g*, whereby the standard is retained in place so long as there is no excessive pressure; but when the share strikes an obstruction the shock of the contact will lift the standard off of the bolt *g* and prevent any straining or breaking of the parts.

I claim—

The curved standard C, formed with an inclined elongated serrated slot, *c*, at one end, and an upwardly-extending notch, *f*, in its inside face, in combination with the plow-beam, slotted bracket B, and bolt *g*, as shown, for the purposes specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM J. DAVIDSON.

Witnesses:

WILLIAM PAXTON,  
A. E. T. HANSMANN.