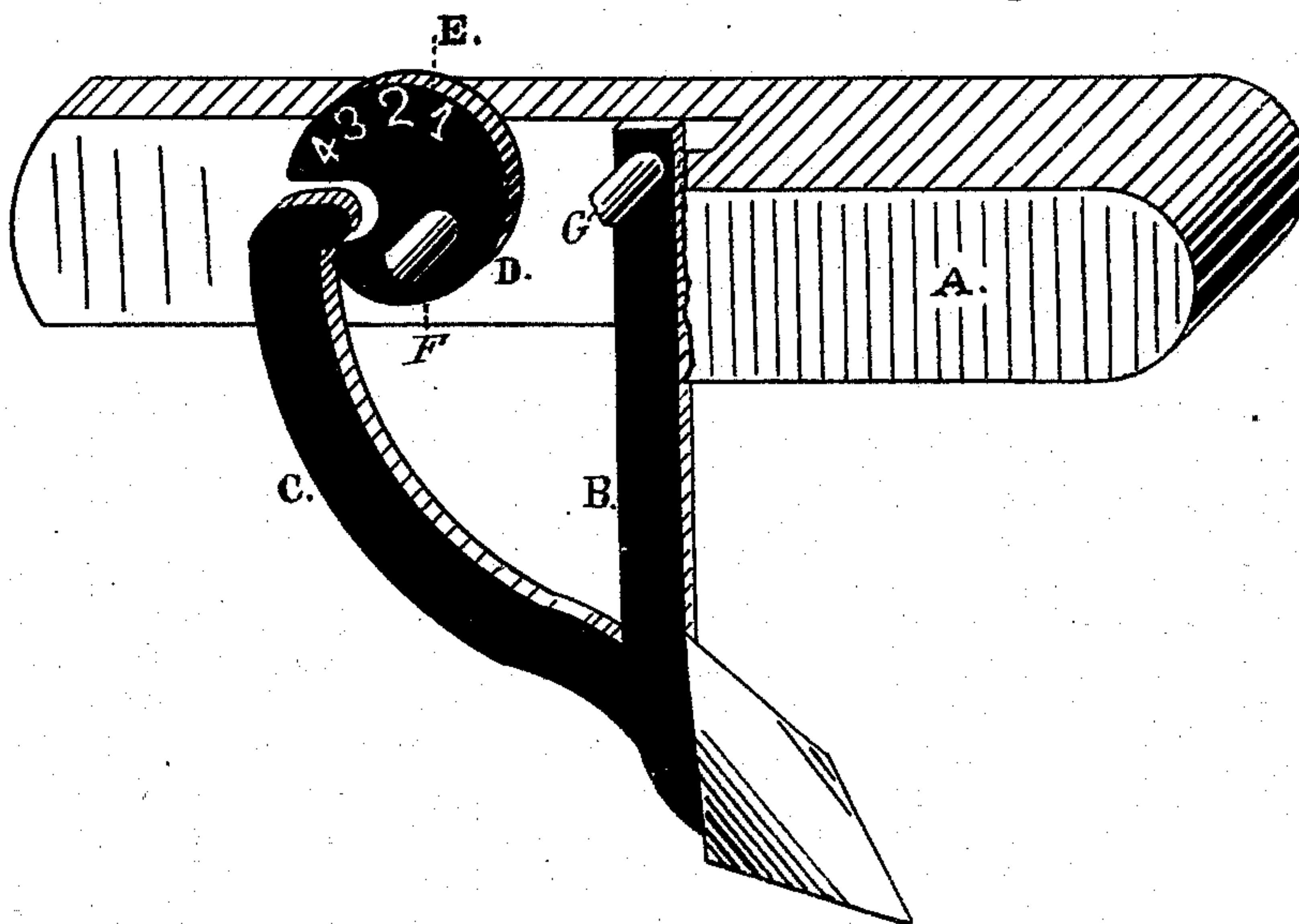


G. D. ROWELL.
Slip-Tooth for Seeder.

No. 160,547.

Patented March 9, 1875.

Fig. 1.



WITNESSES:

Chas. Fink
N. C. Koch

INVENTOR:

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By J. B. Smith
his attorney

UNITED STATES PATENT OFFICE.

GUILFORD D. ROWELL, OF APPLETON, WISCONSIN, ASSIGNOR TO
ROWEL & MORRIS, OF SAME PLACE.

IMPROVEMENT IN SLIP-TEETH FOR SEEDERS.

Specification forming part of Letters Patent No. **160,547**, dated March 9, 1875; application filed
January 16, 1875.

To all whom it may concern:

Be it known that I, GUILFORD D. ROWELL, of Appleton, in the county of Outagamie, in the State of Wisconsin, have invented certain Improvements in Slip-Teeth for Seeders, of which the following is a specification:

The object of my invention is to make a slip-tooth for a seeder or cultivator, which, when the same strikes an obstruction, will yield without breaking the tooth, and it is arranged with a cam which turns in the beam and lets the tooth slip back.

Figure 1 is a view of my invention with the beam broken away on one side, showing the cam.

A is the beam; B, the tooth; C, the brace of the tooth with a turned end fitting in a slot in the cam; D, the cam; E, figures on the top of the cam to set it by; F, pin through the beam and the cam; G, pin through the beam and the tooth.

The operation of this tooth is as follows: When the point of the tooth strikes anything solid enough to break the tooth, the brace will be pushed against cam D, and it will turn and allow the brace to slip out of the slot in the cam, the cam being held from turning by the pinching of the beam, so as to turn hard enough for the purpose, and the figures on the top of the cam are to set it by, so as to work harder or easier, as the case may be.

I claim as my invention—

1. The combination of slip-tooth B, having brace C, with notched cam D, substantially as set forth.

2. The beam A, tooth B, having brace C, and cam D, having indicator-figures E, all in combination substantially as set forth.

GUILFORD D. ROWELL.

Witnesses:

W. J. ALLEN,
GEO. C. DICKINSON.