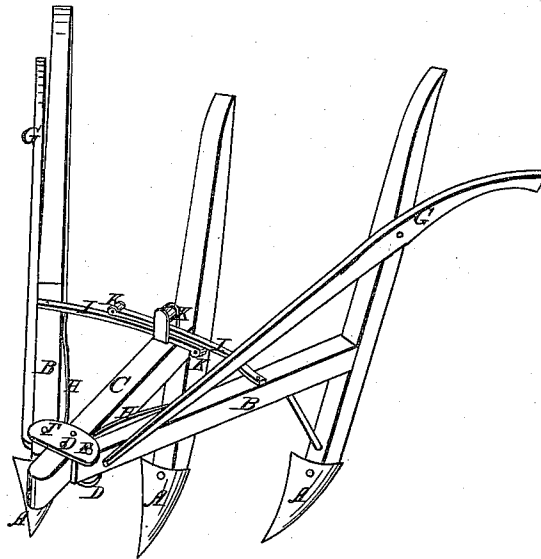


*E. Knepper.*

*Plow.*

*N<sup>o</sup> 88,723.*

*Patented Apr 6, 1869.*



*Witnesses,*

*A. H. Boten*  
*David. Gralick*

*Inventor,*

*Eli Knepper,*



ELI KNEPPER, OF COLUMBUS, OHIO.

*Letters Patent No. 88,723, dated April 6, 1869.*

**IMPROVEMENT IN SHOVEL-PLOWS.**

*The Schedule referred to in these Letters Patent and making part of the same*

*To all whom it may concern :*

Be it known that I, ELI KNEPPER, of Columbus, in the county of Franklin, and State of Ohio, have invented a new and useful Improvement in Shovel-Plows; and I do hereby declare that the following is a full and exact description of the construction and operation of the same, reference being had to the accompanying drawings making a part of the specification, in which is given a perspective view of my improved shovel-plow.

The nature of my invention consists in constructing a shovel-plow with three shovels, in which the two outer ones are movable in such a way, that the plowman is able to bring them nearer to the middle one, or further from it, without stopping his work, according to circumstances.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

My plow has three shovels A A A, the middle one of which is standing a little in front of the two outer ones.

The outer shovels are fastened on two beams B B, which are brought in connection with a middle beam, C, only by two iron plates D D, and two bolts F F, on which latter, the outer beams turn.

To enable the plowman to contract or expand the plow during his work without stopping it, by means of

the two handles of the plow G G, and to make the two outer shovels always go back to their normal distance from the middle shovel, two springs H H are fastened between the middle and outer beams. Two slit bars I I are fastened on the outer beams. The bars move easily over each other by the application of three rollers K K K, of which two are fastened on the ends of the slit bars, and the third is placed over the slit bars I I, and fastened on the middle beam C.

This plow can be used as a cultivator, and as a shovel-plow, and one is able to do quicker work with it, than with any other shovel-plow. It finishes a row at once, when it is necessary to go through thrice with any other shovel-plow.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The two slit bars I I, and rollers K K K, in combination with the beams B B and C, constructed and arranged as described.

2. The two springs H H fastened between the middle beam C, and outer beams B B, which bring the outer shovels always back to their normal distance from the middle shovel, when contracted as herein described.

ELI KNEPPER.

Witnesses:

A. N. TOTEN,  
SAM. GULICK.