

H. KOELLER.  
Seed-Droppers.

No. 153,576.

Patented July 28, 1874.

fig. 1

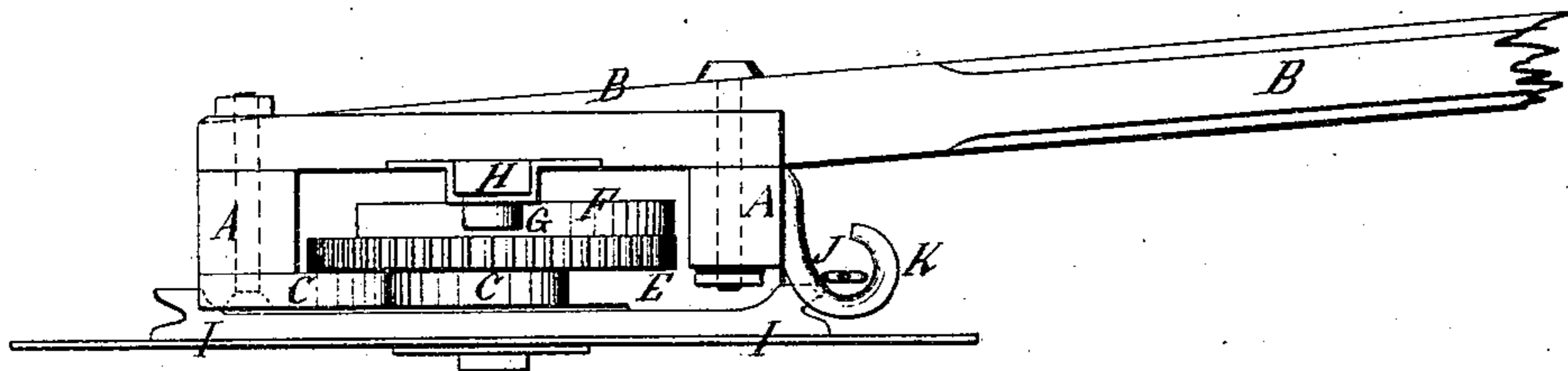


fig. 2

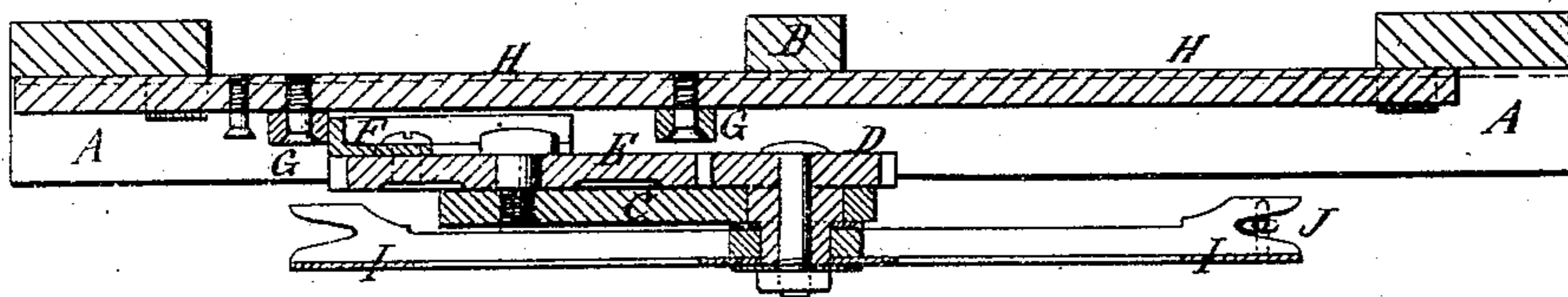
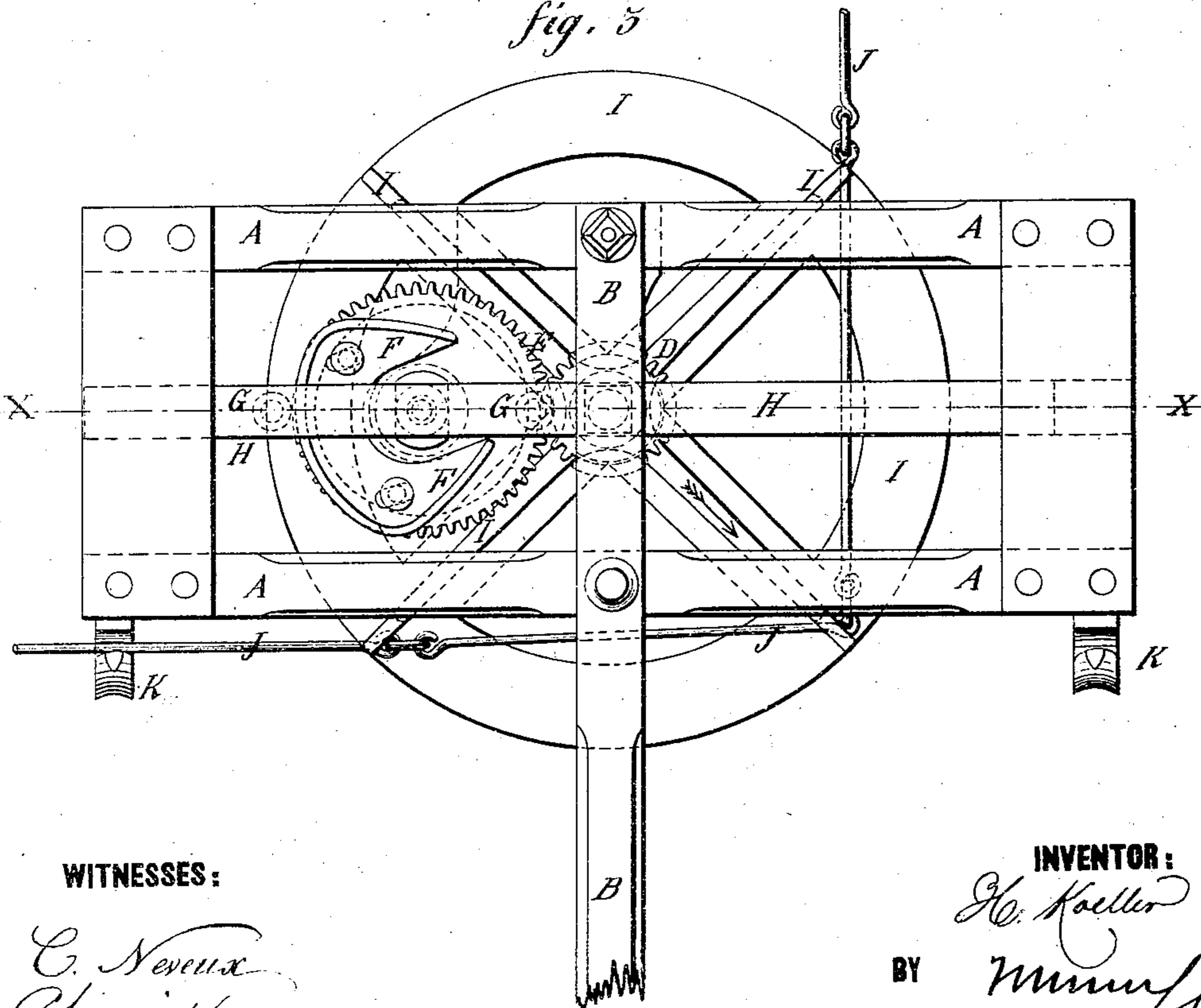


fig. 3



WITNESSES:

C. Neveu  
Chidwick

INVENTOR:

H. Koeller

BY

Munnell

ATTORNEYS.

# UNITED STATES PATENT OFFICE.

HERMANN KOELLER, OF CAMP POINT, ILLINOIS.

## IMPROVEMENT IN SEED-DROPPERS.

Specification forming part of Letters Patent No. **153,576**, dated July 28, 1874; application filed May 16, 1874.

*To all whom it may concern:*

Be it known that I, HERMANN KOELLER, of Camp Point, in the county of Adams and State of Illinois, have invented a new and useful Improvement in Seed-Droppers, of which the following is a specification:

Figure 1 is a side view of my improved device. Fig. 2 is a vertical cross-section of the same, taken through the line *x x*, Fig. 3. Fig. 3 is a top view of the same.

Similar letters of reference indicate corresponding parts.

The invention is an improvement in machines whose seed-slides are operated by a chain-wheel, and a chain extended across the field.

The invention relates to the construction and arrangement of parts, as hereinafter described, and specifically indicated in the claim.

A are two cross-bars, to which the runners or openers and the seed-hoppers are attached, and to the middle parts of which the tongue B is attached. To one or both the cross-bars A is attached a plate or bracket, C, to which are pivoted the small gear-wheel D and the large gear-wheel E, the teeth of which mesh into each other. To the larger gear-wheel E is bolted a plate, F, having an eccentric flange or a segment of an eccentric flange formed upon it, which strikes against pins or friction-rollers G, attached to the dropping slide H, so that the said slide may receive a reciprocating movement to drop the seed from the revolutions of the gear-wheels D E. The eccentric F has slots formed in it to receive the bolts by which it is secured to the gear-wheel E, so that it may be adjusted to give the dropping-slide H a longer or shorter stroke, as may be desired. To the lower end of the journal of the small gear-wheel D is attached a wheel, I, consisting of four or more radial arms, the outer ends of which are notched to

receive a chain, J, and to the lower side of which is attached a ring or flange plate, to receive and support the part of the chain J that is passing around said wheel. The chain J is made of long links, of a length equal to the distance between the notched ends of the arms of the wheel I, as shown in Fig. 3. To the forward side of the ends of the front cross-bar A are attached hooks K, to guide the chain as it passes from the ground to the chain-wheel I.

In using the machine, in coming to the end of the field, the driver should slip a spring-ring upon the link that dropped last to the ground, after dropping the last hill before turning, for a mark. He should then count the links that lie crosswise, and put another spring-ring in the link he wishes to begin to drop from, for a mark in starting. After turning around, the flanged chain-wheel I should be set so that the machine will begin to drop at the marked link. This will bring the hills in accurate check-row.

I do not claim the combination in a seed-ing machine of a chain-wheel, cam, and seed slide; but

Having thus described my invention, I claim as new, and desire to secure by Letters Patent—

The slide H, having fixed friction-rollers G, the slotted flanged eccentric F, secured adjustably to one side of the spur-gear E, which is in turn supported on the fixed plate C, the revolving pinion D, and the concentric chain-wheel I, both fixed on the same axis, all constructed and combined as shown and described, to operate as specified.

HERMANN KOELLER.

Witnesses:

JAS. C. DAVIS,

JAS. W. COLWELL.