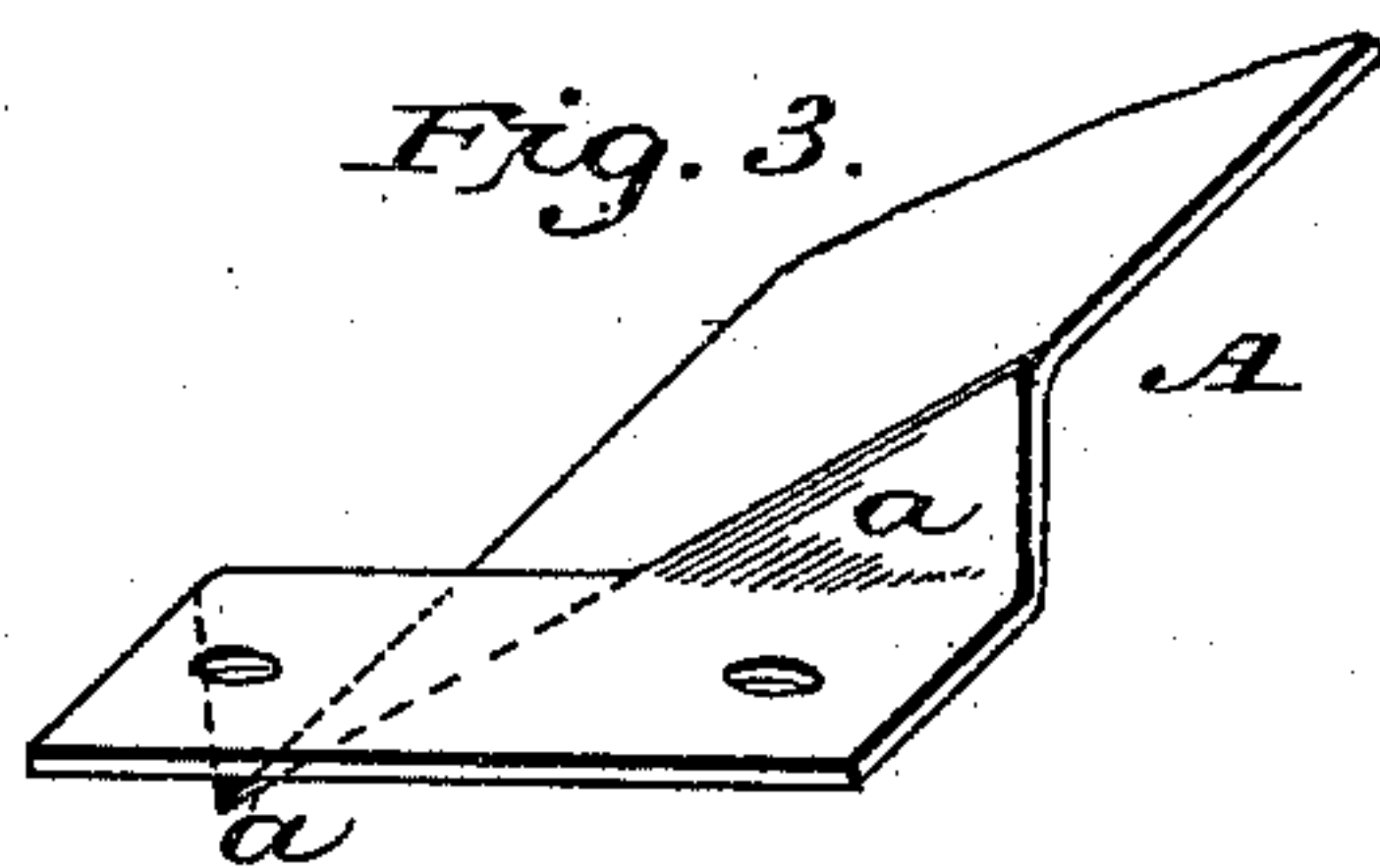
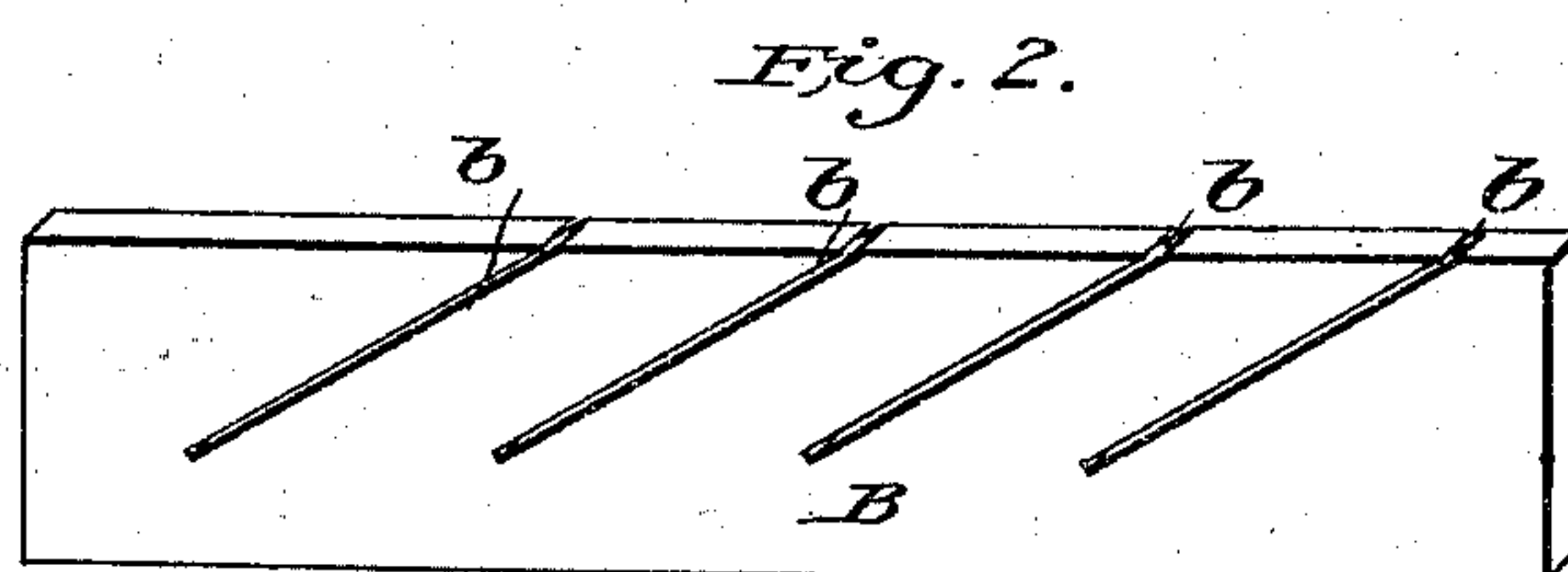
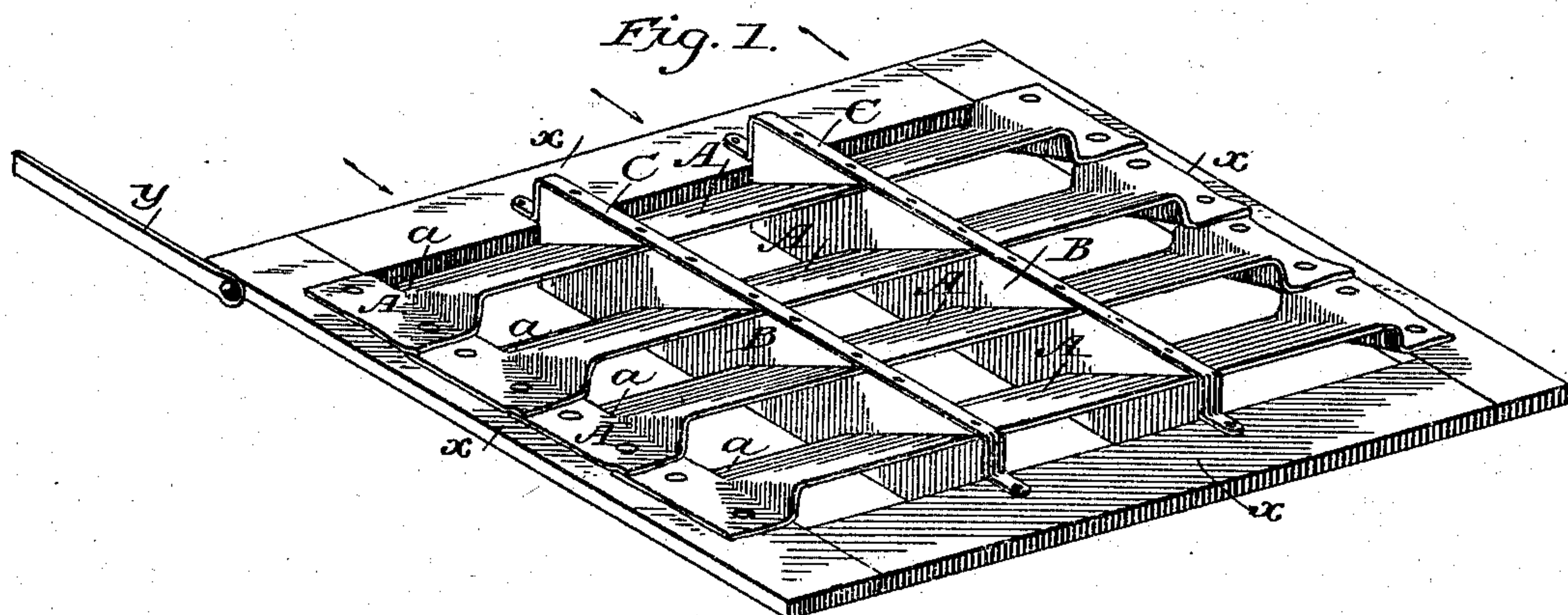


(No Model.)

C. KIND.
SEPARATOR SIEVE.

No. 500,714.

Patented July 4, 1893.



Witnesses.

F. J. Duffy
J. H. McGary

Inventor.

Charles Kind
By his atty in fact
Wm. S. Conklin

UNITED STATES PATENT OFFICE.

CHARLES KIND, OF FRIENDSHIP, WISCONSIN.

SEPARATOR-SIEVE.

SPECIFICATION forming part of Letters Patent No. 500,714, dated July 4, 1893.

Application filed November 7, 1892. Serial No. 451,255. (No model.)

To all whom it may concern:

Be it known that I, CHARLES KIND, a citizen of the United States, residing at Friendship, Fond du Lac county, and State of Wisconsin, have invented a new and useful Separator-Sieve, of which the following is a specification.

My invention relates to improvements in sieves or screens used in separators, of thrashers, or fanning mills; and the object of my improvement is to provide, particularly in the upper sieve better facilities for the passage of the blast, through the meshes of the sieve, and the longer retention of the kernels in the sieve, thereby effecting a more thorough separation of the same from the straw and chaff. I obtain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1— is view in perspective of the machine. Fig. 2— is a perspective view of the partition B. Fig. 3— is a view of the swaged end of slat.

Similar letters refer to similar parts throughout the several views.

The sieve consists of a frame x —the same in shape and proportion as ordinarily used which is shaken with a reciprocating motion backward and forward, by means of crank and pitman y —or other common means. Across this frame I place parallel strips or slats of heavy inch hoop-iron (or steel) A A. These slats or strips, are each, first twisted or swaged at their ends, so as to incline vertically about thirty degrees in reference to the plane of the frame—as shown at $a. a$. The flat ends are overlapped about one sixteenth of an inch, and secured to the frame ends. These slats, thus swaged, form a series, whose upper sur-

faces are inclined downward, and overlap each other in intervals of about five-sixteenths of an inch vertically, and one sixteenth of an inch laterally. For further support of the slats, and to provide for the meshes of the sieve, I cross the slats at intervals in their length, of about two and three eighths inches, with vertical board strips B which are kerfed at the same angle and at the same intervals, that the slats A are formed and placed, and so that each slat may be inserted and secured by its corresponding kerf— b . The sides of the board strip, as is obvious, finish the mesh of the sieve—the vertical width of the cross strips must also be greater, than the depth of the cavities between the inclined slats A, for the purpose of furnishing a firm base, below the kerfs b . The cross strips B—are further strengthened and secured by iron straps C C passing longitudinally over them, tacked to their tops, and spiked or screwed firmly to the side rails of the frame x —as shown in Fig. 1. These straps also furnish smooth and effective carriers of the straw and chaff from the cylinder, or hopper.

Having thus shown the nature and operation of my device, I claim as my invention and desire to secure by Letters Patent—

In a separator sieve—the arrangement and combination, the metallic slats A, swaged at their ends into lateral inclines, the cross strips B—with inclined kerfs b —the straps C, with the frame x —all as, and for the purposes described.

CHARLES KIND.

Witnesses:

F. F. DUFFY,
J. H. McCAVRY.