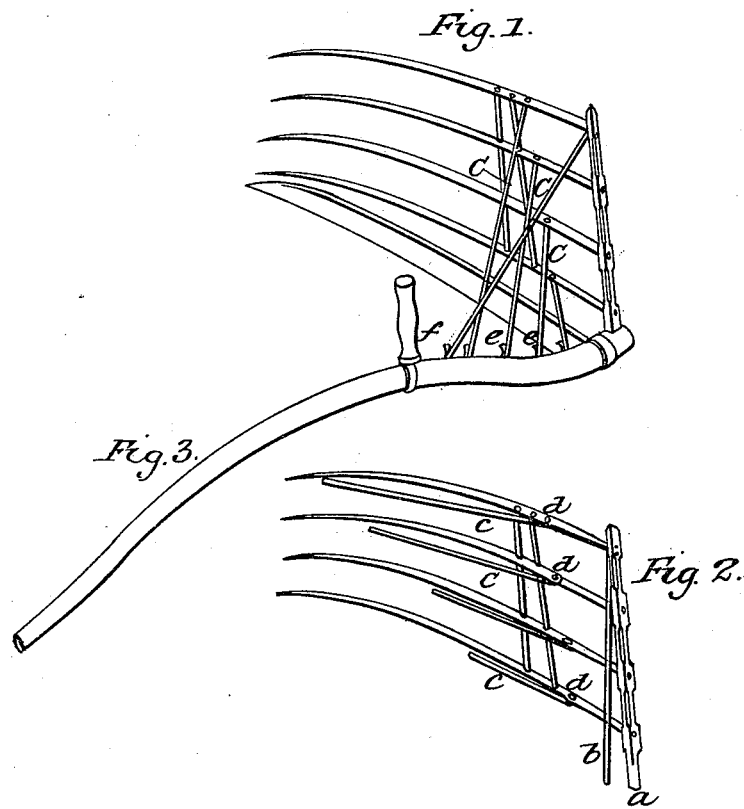


GRANT & VIALL.

Grain Cradle.

No. 7,720.

Patented Oct. 15, 1850.



UNITED STATES PATENT OFFICE.

ISAAC T. GRANT AND DANL. H. VIALL, OF SCHAGHTICOKE, NEW YORK.

IMPROVEMENT IN GRAIN-CRADLES.

Specification forming part of Letters Patent No. 7,720, dated October 15, 1850.

To all whom it may concern:

Be it known that we, ISAAC T. GRANT and DANIEL H. VIALL, both of the town of Schaghticoke, county of Rensselaer, and State of New York, have invented an improvement in the manner of constructing and combining the frame-work of cradles, being a device whereby the whole structure of the cradle may be conveniently separated from the snath, and by the arrangement of the attachment of the braces to the fingers of the cradle, both of which (the braces and the fingers) are permitted to be laid with each other, or diagonally upon each other, thus condensing the entire structure in a small space. Thus large numbers may be cheaply, safely, and condensely packed, convenient for storage, removal, or transportation. The same device admits and secures a facility and ease of construction and reconstruction of the cradle at any time desired, and may be done and performed by any person of ordinary ability not skilled in the art of manufacturing grain-cradles; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a perspective view of the grain-cradle as manufactured and constructed, and all its parts united to its snath, as represented by Fig. 3. Fig. 2 represents a perspective view of the cradle separated from the snath and prepared to pack or box for the purpose of storage or transportation.

Letter *a* represents the standard or post, in which the fingers are secured in the usual way, and also the brace, as represented by letter *b*, being placed nearly horizontal and resting upon the fingers, and when united to the snath is then a brace from the post to the snath, as is represented by letter *f* in Fig. 1.

Letters *c c c c* represent the wire braces, (as when taken from the snath,) and which are represented to lie in a parallel position with the fingers.

Letters *d d d d* represent the ends of the wire braces, so formed by bending as to permit them to pass perpendicularly through the fingers, the extreme ends of which are riveted,

in the usual way, upon the opposite side of the fingers, thus forming a hinge-joint permitting the braces to be turned in the direction desired, as in *d d d d*.

Letters *e e e e* in Fig. 1 represent the braces (letters *c c c c* in Fig. 2) as inserted in the snath, Fig. 3, and secured by hook-headed key-wedges, which secure the braces by being driven alongside of the braces, thus firmly securing the braces to the snath, Fig. 3.

All the labor which is required to reconstruct the cradles after having been separated is, first, to insert the standard or part *a* into the snath 3, and at the same time insert the ends of the braces *f c c c c* into the snath, as represented by *e e e e* and *f*, then secured by the wedges, as described.

We do not claim that we have discovered any new principle in the form or in the formation and general construction of a grain-cradle hitherto known or used, the whole formation and construction, in point of utility, being the same as has been heretofore and is now manufactured by us; but

What we do claim as our invention, and desire to secure by Letters Patent, is—

The particular construction and arrangement of the brace-rods *c* so as to fold down upon the fingers, as shown in Fig. 2, each being bent in the proportionate angle fitting their respective localities. The ends thus bent pass through the fingers perpendicularly at *d*, and are secured by riveting the same upon the upper side of the fingers, which shape and form given to the wire braces forms and constructs a hinge-joint, and each may be turned or swayed in the direction desired, and when separated from the snath each wire brace is placed in the position as is represented by Fig. 2 aforesaid, permitting large numbers to be packed in a condensed form in packages or boxes convenient and proper for removal, storage, or transportation, substantially the same as herein set forth and described.

ISAAC T. GRANT.
DANIEL H. VIALL.

Witnesses:

ISAAC RANSOME,
MATTHIAS P. COONS.