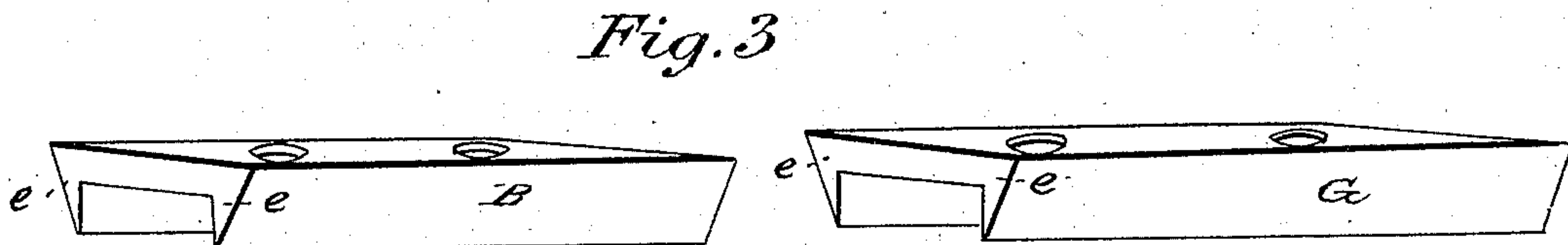
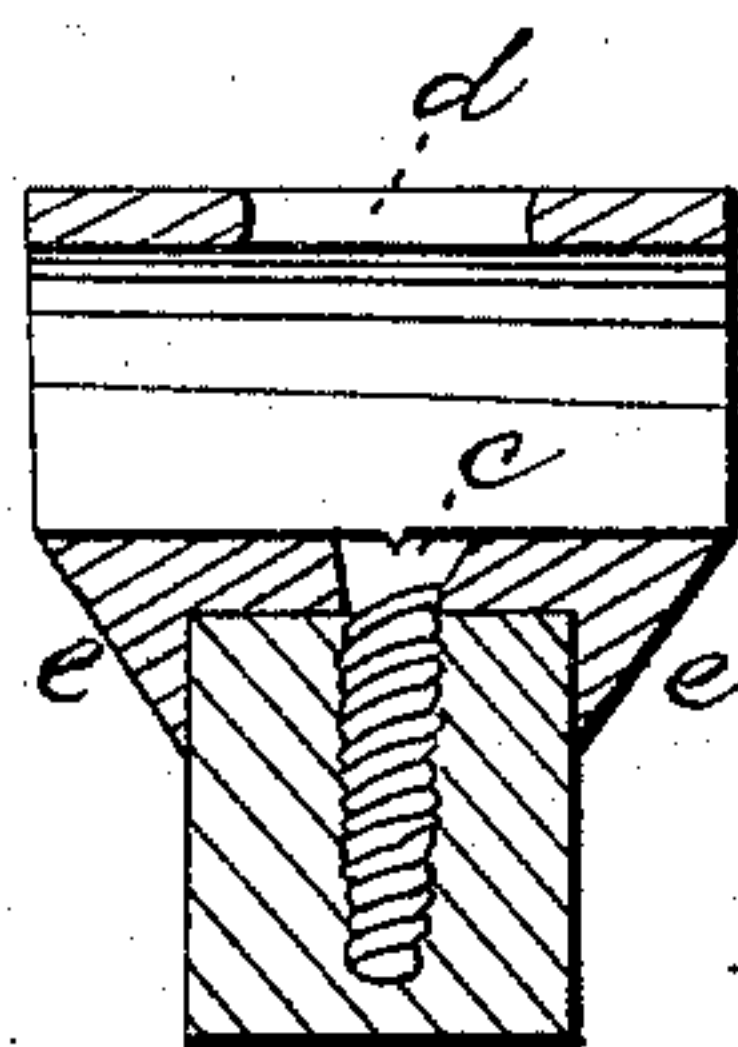
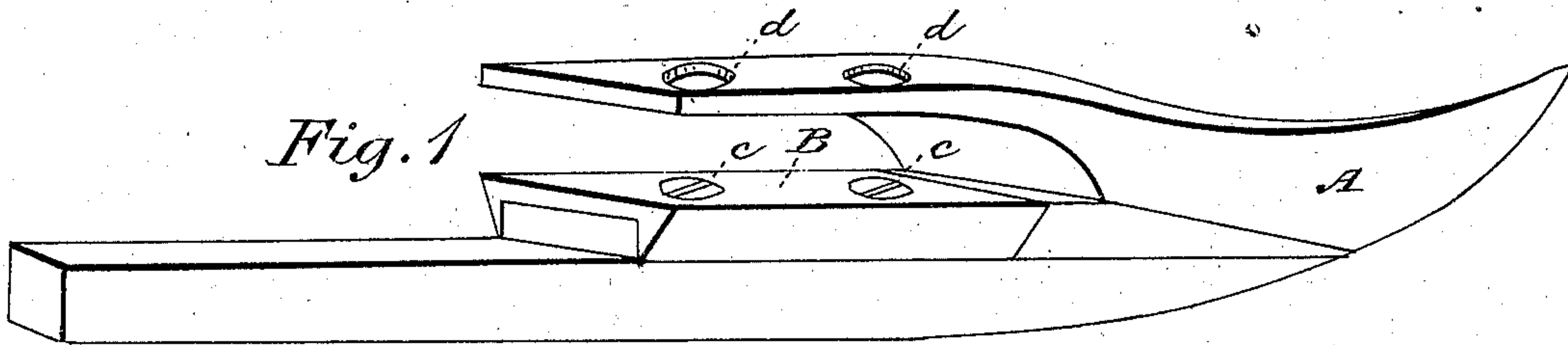


BROWN, WORCESTER, & GRISWOLD.

Harvester Guard-Fingers.

No. 70,071.

Patented Oct. 22, 1867.



Witnesses:

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United States Patent Office.

ALFRED BROWN, HORATIO D. WORCESTER, AND ABRAM M. GRISWOLD, OF GANIER,
ILLINOIS, ASSIGNORS TO THEMSELVES AND B. F. GRAY, OF SAME PLACE.

Letters Patent No. 70,071, dated October 22, 1867.

IMPROVEMENT IN GUARD-FINGERS FOR HARVESTERS.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that we, ALFRED BROWN, HORATIO D. WORCESTER, and ABRAM M. GRISWOLD, of the town of Ganier, Kankakee county, State of Illinois, have made certain new and useful improvements in Sickle-Guards; and we do hereby declare the following to be a full and exact description of the same, reference being had to the drawings that accompany and form a part of these specifications, in which—

Figure I is a perspective view of sickle-guard, with steel plate B fastened to the guard by two countersunk screws.

Figure II, sectional view of steel plate.

Figure III, perspective view of the steel plate, one showing a smooth edge, the other a sickle edge.

Letter A, sickle-guard; letter B, detachable steel plate; letters C C, screws by which the plate B is kept in position and fastened to the guard; letters *d d*, openings in top of guard, through which the screws C C may be inserted or removed, as desired; letters E E, flanges on under side of plate B, to give additional firmness and stability to it, thus avoiding too great a strain upon the screws C C; letter B, Fig. III, plate with smooth edge; letter G, Fig. III, plate with sickle edge.

The object of our invention is not simply to provide the steel plate B, in order to give better cutting edges, as this has already been done, but to provide a readily detachable plate, for the purpose of sharpening or substituting new ones, when required, without the necessity of disturbing any other part of the machine. The steel plate B has bevelled edges. The two holes *d d* in the upper part of the guard enable us to take out the screws C C and readily remove the plate for the purpose of grinding or filing whenever it becomes dull. This plate may be made with a smooth edge for cutting grass, or with a sickle edge for cutting grain, as shown in Fig. III.

The advantages of this invention will be readily appreciated by every one accustomed to working mowing or reaping machines, as it is well known that after using them any considerable time the edges of the guard become rounded and dull, and consequently require more power, and fail to do as good work as at first. The sharpening of these plates when attached to the guard is extremely difficult. This difficulty is obviated by the use of this plate, which is so easily removed and sharpened.

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

The detachable steel plate B, provided with the flanges *e e*, either with or without the sickle edges, substantially as described, and for the purposes set forth.

Witnesses:

E. H. JUDD,
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ALFRED BROWN,
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ABRAM M. GRISWOLD.