

R. ALLSTATTER.

Heels for Knives for Reapers and Mowers.

No. 134,831.

Patented Jan. 14, 1873.

Fig. 1

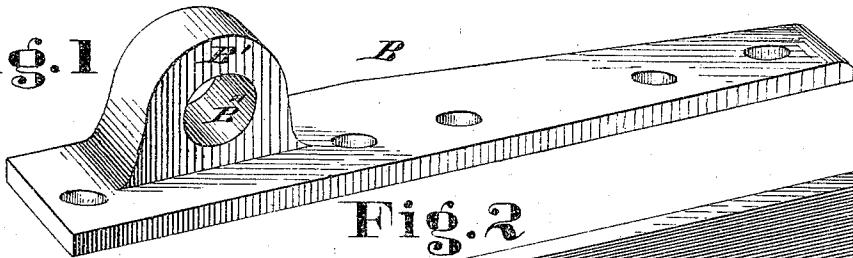


Fig. 2

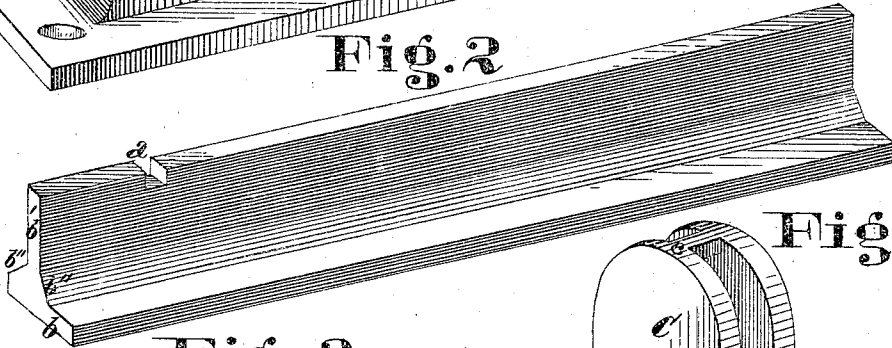


Fig. 3

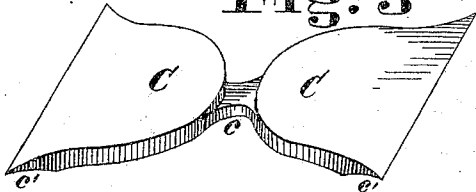


Fig. 4

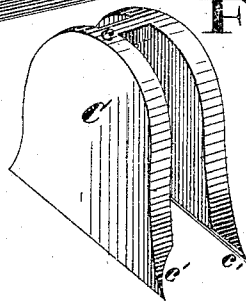


Fig. 5

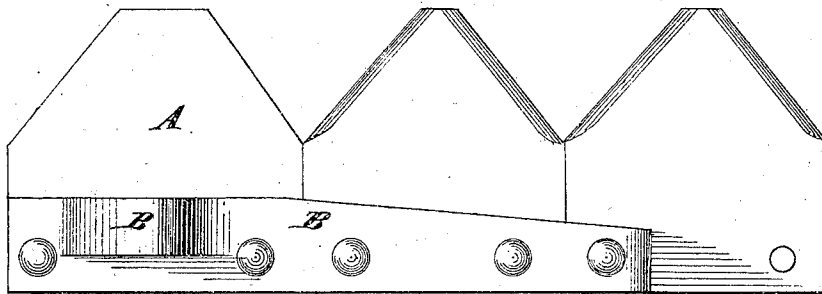
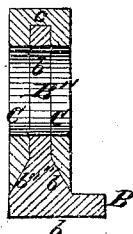


Fig. 6

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UNITED STATES PATENT OFFICE.

ROBERT ALLSTATTER, OF HAMILTON, OHIO, ASSIGNOR TO LONG AND ALLSTATTER, OF SAME PLACE.

IMPROVEMENT IN HEELS FOR KNIVES FOR REAPERS AND MOWERS.

Specification forming part of Letters Patent No. 134,831, dated January 14, 1873.

To all whom it may concern:

Be it known that I, ROBERT ALLSTATTER, of Hamilton, Butler county, State of Ohio, have invented a certain new and useful Improvement in the Manufacture of Reaper and Mower Knives, of which the following is a specification:

Nature and Objects of Invention.

My invention relates to the construction of that part of the reaper or mower knife to which the pitman is loosely attached, this part being usually of wrought-iron secured to the end of the knife and bushed with steel for the reception of the pin of the pitman. My invention consists of a bar, T-shaped in cross-section, over which a steel facing is bent and welded in such a way as not to destroy or damage the strength of the bar, and yet so united to the bar as that, when drilled, it shall form a steel bushing for the pin of the pitman, which steel may be hardened for prolonged use. My invention further consists of a certain device by which the bent facing is preserved in place during the process of heating for welding.

Description of the Accompanying Drawing.

Figure 1 is a perspective view of the heel or pitman attachment, the construction of which is the subject of this invention. Fig. 2 is a perspective view of a rolled bar, which I especially prepare for the manufacture of this heel. Fig. 3 is a perspective view of the steel facing before it is bent. Fig. 4 is a perspective view of the steel facing after it is bent. Fig. 5 is a plan of the heel attached to the knife. Fig. 6 is a cross-section of my improved heel at the center of the hole for the attachment of the pin of the pitman.

General Description.

A is a reaper or mower knife of ordinary construction, and B the heel or pitman attachment of the same. To construct this heel, I first take a bar of iron specially rolled for this use, similar to that shown in Fig. 2, from which, if of the usual length for bar-iron, can be made a large number of heels. The bar consists of a base, *b*, and web *b'*, the junction of the two strengthened by fillets *b''*. The facing C of steel, which is to form the sides of the lug B', Fig. 1, is prepared, as

shown in Fig. 3, having a narrow neck, *c*, designed to fit a notch, *a*, prepared in the bar, Fig. 2. The facing, when bent, fits snugly over the rolled bar, as shown at Fig. 6, the neck *c* fitting into the notch *a*, and the chamfered edges *c'* fitting the fillets *b''*. In this condition the parts are joined by welding the neck and notch device, preventing displacement during the process of heating and welding. After this the bar is cut to proper length, and swaged down to the form shown in Fig. 1. The hole B'', when drilled, will be partly through iron, but mainly through steel, which steel forms the required steel bearing or bushing for the pin of the pitman which operates the knife. Heretofore the steel bearing has been provided by driving a bush into the lug B' larger than the hole required, or by "jumping" an entire lug of steel upon a flat bar. By the first method it is difficult to get steel of equal thickness all round the hole, and often the hole cuts into the iron through the steel bush, whereas, by my improved method, the steel extends the full width of the lug.

By the "jumping"-on process the bar is very materially weakened by the "galling" of it in the process of welding the steel upon it.

Claims.

1. A heel or pitman attachment for reaper and mower knives, consisting of a rolled ribbed iron bar of the required form with a steel facing welded to it, for the purpose of providing a steel bushing for the pitman pin or journal without loss of strength in the heel, substantially as and for the purpose specified.
2. A heel or pitman attachment for reaper or mower knives, composed of the iron B B' and the bifurcated steel facing C, which is welded to the iron, having a neck, *c*, to enter a corresponding groove, *a*, in the lug B' of the iron, substantially as and for the purpose specified.

In testimony of which invention I hereunto set my hand.

ROBERT ALLSTATTER.

Witnesses:

FRANK MILLWARD,
J. L. WARTMANN.