

C. R. SWEET & W. V. BALLARD.

HEDDLE BINDER.

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1,042,052.

Patented Oct. 22, 1912.

Fig 1

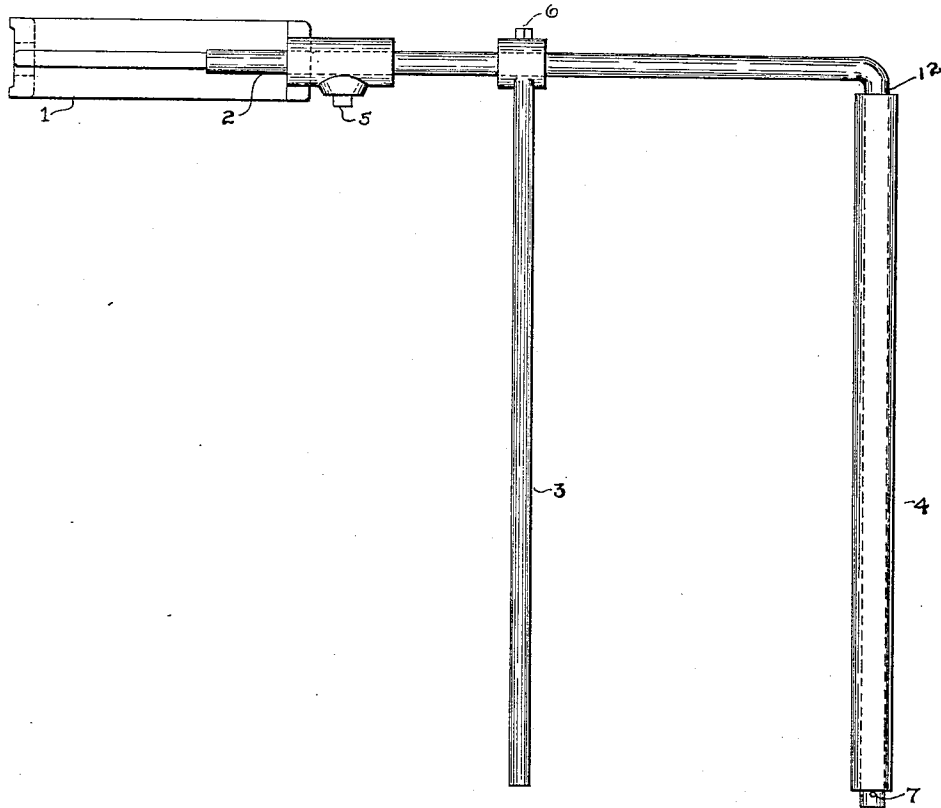
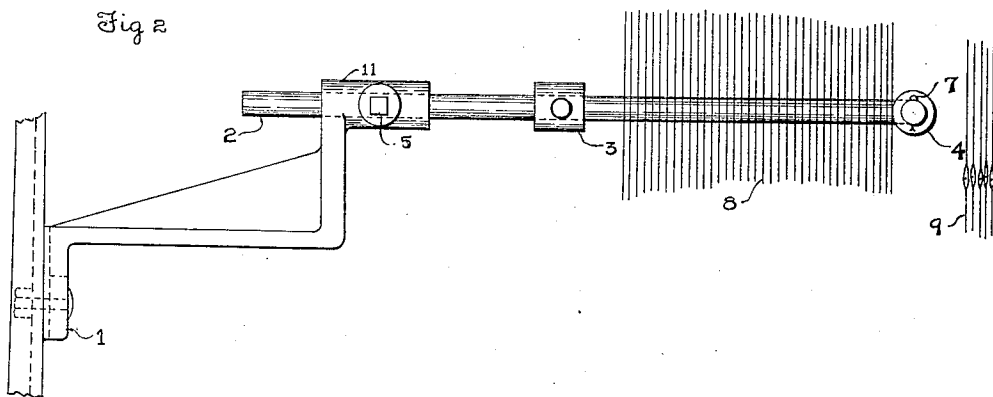


Fig 2



Witnesses
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UNITED STATES PATENT OFFICE.

CHARLES R. SWEET, OF WORCESTER, AND WILLIAM V. BALLARD, OF MILLBURY,
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HEDDLE-BINDER.

1,042,052.

Specification of Letters Patent.

Patented Oct. 22, 1912.

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To all whom it may concern:

Be it known that we, CHARLES R. SWEET and WILLIAM V. BALLARD, both citizens of the United States, said SWEET residing at Worcester and said BALLARD residing at Millbury, both in the county of Worcester and State of Massachusetts, have invented a new and useful Heddle-Binder, of which the following is a specification.

This invention relates to a device for binding heddles when not in use.

The principal objects of the invention are to provide a binder of this character conveniently to separate the heddles not in use from those in operation in such a way as to protect the selvage, and also to provide for allowing the harness freer play than in the old method of tying the heddles back by means of a cloth, and to provide a construction which will not break the heddles or permit them to get snarled up in the harnesses.

Further objects and advantages of the invention will appear hereinafter.

Reference is to be had to the accompanying drawings in which—

Figure 1 is a plan of a heddle support constructed in accordance with this invention, and Fig. 2 is a side view thereof showing the heddles.

The invention is shown as comprising a bracket or stand 1 fastened to the inner surface of the loom side and projecting toward the harnesses. This is provided with a hub 11 having a horizontal passage therethrough in which is supported a horizontal angle iron 2 which is adjustably fastened in position by a set-screw 5. The angle iron extends directly outwardly from the hub 11 and is provided with an end 12 at right angles to the main body. On this end is a protecting roll 4 held in position by cotter pin 7. This roll preferably is of wood and is designed to prevent wear of the harnesses when supported thereon. A horizontal protector rod 3 is also applied adjustably to the angle iron 2 by means of a set-screw 6 when steel heddles are used. This of course goes between the end of the harness and the heddles.

The heddles 8 that are not in use are hung between the roll 4 and the loom side, or if steel heddles are used they are hung between the roll 4 and rod 3. In this way they are separated from the operative hed-

dles 9 and held in such position that the selvage is protected and the harnesses are allowed free play. They are also right at hand when wanted and no time has to be lost in untying them or otherwise freeing them from each other or from the loom.

By the use of the rod 3, a bunch of steel heddles can be held in position, away from the loom side without tying them together, and there is no danger of their breaking or getting snarled up in the harness when applied to this binder. Considerable time is saved also by the elimination of the tying operation usually practised. On account of the adjustments different numbers of heddles can be accommodated.

Although a preferred embodiment of the invention is illustrated and described herein modifications can be made therein by any person skilled in the art without departing from the scope of the invention. Therefore we do not wish to be limited to all the details shown and described, but

What we do claim is:—

1. As an article of manufacture, a heddle binder comprising a stand adapted to be fastened to a loom side and provided with a horizontal angle iron extending outwardly therefrom, said angle iron having a projection extending at right angles to its main body and provided with a readily rotatable roll thereon the stand having means for keeping said angle iron in horizontal position.

2. As an article of manufacture, a heddle binder comprising a stand adapted to be fastened to a loom side, an angle iron adjustable longitudinally on said stand, and a wooden roll on the angle iron for holding the heddles the stand having means for keeping said angle iron in horizontal position.

3. As an article of manufacture, a heddle binder comprising a bracket, an angle iron projecting therefrom and adjustable longitudinally, and a horizontal protector rod adjustable along the angle iron.

4. As an article of manufacture, a heddle binder comprising a bracket, an angle iron projecting therefrom, a horizontal protector rod on the angle iron parallel with the end of the angle iron, and a roll on the end of the angle iron.

5. In a device of the character described, the combination with a harness, of a hori-

zontal member adapted to extend through the harness to separate the heddles in use from those not in use and to hold the latter back toward the loom side out of normal
5 position.

6. In a device of the character described, the combination with a harness, of a horizontally adjustable member adapted to extend through the harness to separate the
10 heddles in use from those not in use and a parallel rod independently adjustable hori-

zontally for holding the heddles not in use away from the loom side.

In testimony whereof we have hereunto set our hands, in the presence of two sub- 15 scribing witnesses.

CHARLES R. SWEET.
WILLIAM V. BALLARD.

Witnesses:

LIDA BALLARD,
FREDERICK A. SWEET.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
