

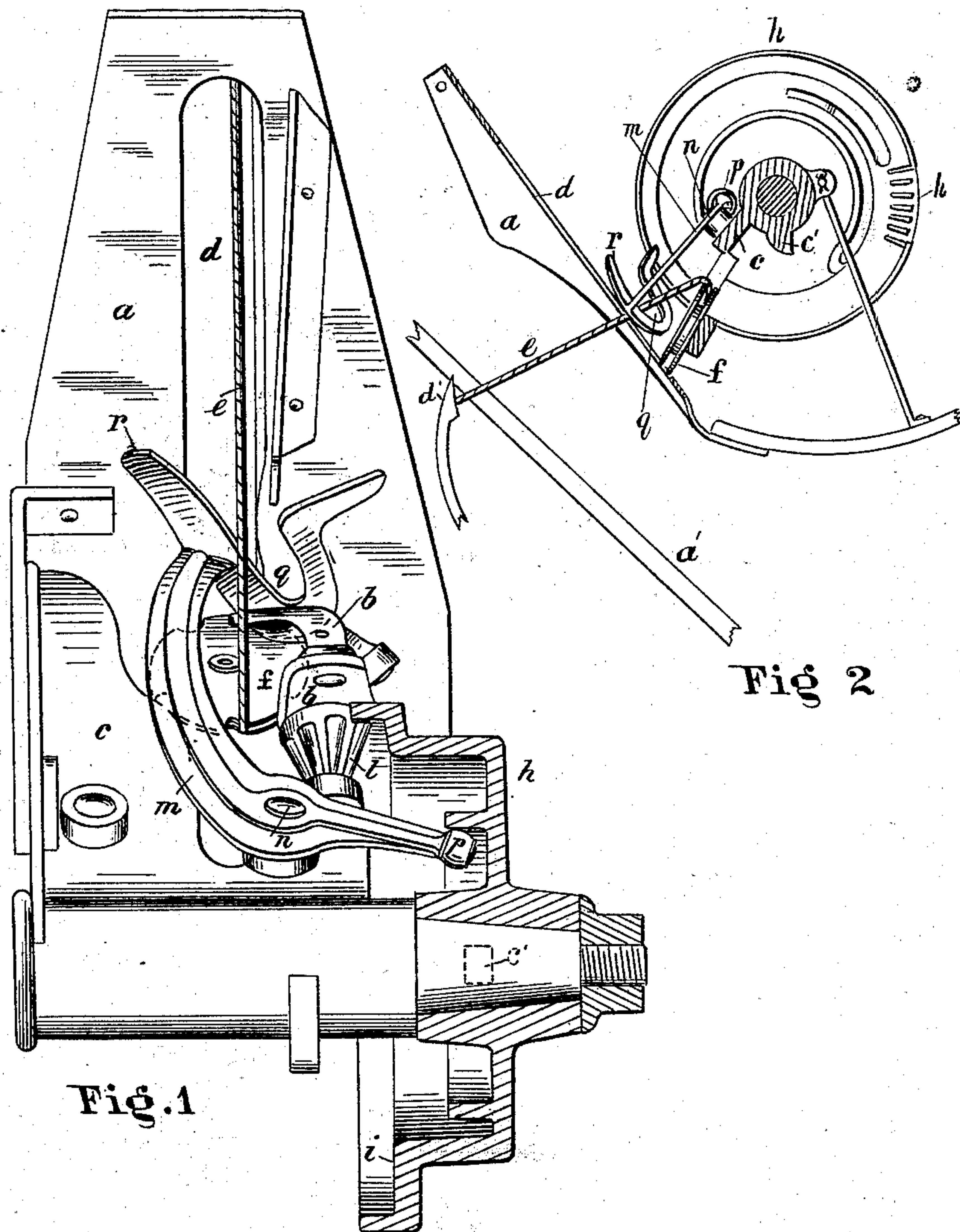
(No Model.)

W. N. WHITELEY & W. BAYLEY.

KNOTTING MECHANISM FOR SELF BINDERS.

No. 274,870.

Patented Mar. 27, 1883.



Attest
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KNOTTING MECHANISM FOR SELF-BINDERS.

SPECIFICATION forming part of Letters Patent No. 274,870, dated March 27, 1883.

Application filed June 28, 1882. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM N. WHITELEY and WILLIAM BAYLEY, of Springfield, in the county of Clarke, State of Ohio, have
5 invented a new and useful Improvement in the Cord-Guide and Stripper of the Knotting Mechanism of Self-Binders, of which the following is a specification.

In the accompanying drawings, Figure 1 is
10 a perspective view, shown partly in section, of our improved combined stripper and cord-guide represented as attached to the knotting-mechanism of a self-binder; and Fig. 2 is a sectional elevation of the cord-guide stripper
15 of the same, drawn to a reduced scale.

This invention relates to self-binders that use cord as a band material, and a cord-knotter to secure the ends of the band; and it consists in an extension of the pivoted and
20 oscillatory knot-stripper that at a time when the guide is in position to receive the cords stands across the slot made for the passage of the binding-arm in the overhanging bridge, said extension forming an inclined guide to
25 give proper direction to the cord and thereby insure its proper delivery to the knotter and gripper, as will hereinafter more fully appear.

a is an overhanging inclined bridge, suspended above the binding-table *a'* in a suitable manner to separate the knotting mechanism *b* from the grain between it and said binding-table.

c is a metallic frame, to which the knotting mechanism is secured.

35 *d* is a slot made in the bridge *a* for the passage of the point of the binding-arm *d'*, carrying the ends of the binding-cord *e* to the gripper *f*. The knotter-wheel *h* is provided with teeth *h'* at a suitable part of its face *i* to
40 insure a proper meshing with the pinion *l*, that turns the knotter *b* one revolution for each knot made in the band material.

m is the stripper, pivoted at *n* to a frame, *c*, and receiving an oscillatory movement through
45 the agency of a cam, *c'*, formed upon the wheel *h* and engaging with the end *p* of said stripper. This oscillatory movement is imparted

to said stripper to cause the notch *q*, through which both ends of the band material pass on their way to the gripper *f*, to remove the knot
50 from the hook *b* after said knot has been properly formed and the encircling band cut loose from its supply. The extension *r* of the stripper *m* performs an important duty in giving direction to the cord and absolutely preventing it from falling between the bridge *a* and the under side of said stripper. It will be observed that this extension, combined with the overhanging bridge, forms an inclined chute
55 with a flaring mouth for the reception of the cord, which will, when the cord is otherwise imperfectly directed by foreign matter, slide down said extension and suitably rest upon the face of the knotter-hook *b* for the proper formation of a knot in the ends of the band
60 material.

Having thus described our improvement, what we claim as new, and desire to secure by Letters Patent, is—

1. An oscillatory cord-guide and stripper
70 pivoted to the knotter-frame, and actuated as specified, and provided with stripper-notch *q*, and the extension *r*, which forms an inclined chute into the mouth of and to the bottom of the notch in said stripper, for the purpose set
75 forth.

2. An oscillatory cord-guide and knot-stripper pivoted to the knotter-frame, said stripper-arm having the stripper-notch *q*, provided with the extension *r*, which forms an inclined
80 chute into the mouth of and to the bottom of the notch *q*, combined with the slotted bridge *a*, interposed between said stripper and the sheaf, the extension arranged to stand across the slot, substantially as described, and for
85 the purpose set forth.

In testimony whereof we have hereunto set our hands and affixed our seals this 17th day of June, 1882.

WILLIAM N. WHITELEY. [L. S.]

WILLIAM BAYLEY. [L. S.]

In presence of—

HENRY MILLWARD,
E. O. BOWMAN.