2 Sheets—Sheet 1.

J. A. PARR.

Stockinet Seaming Machine.

No. 213,298. **Patented Mar. 18, 1879.**

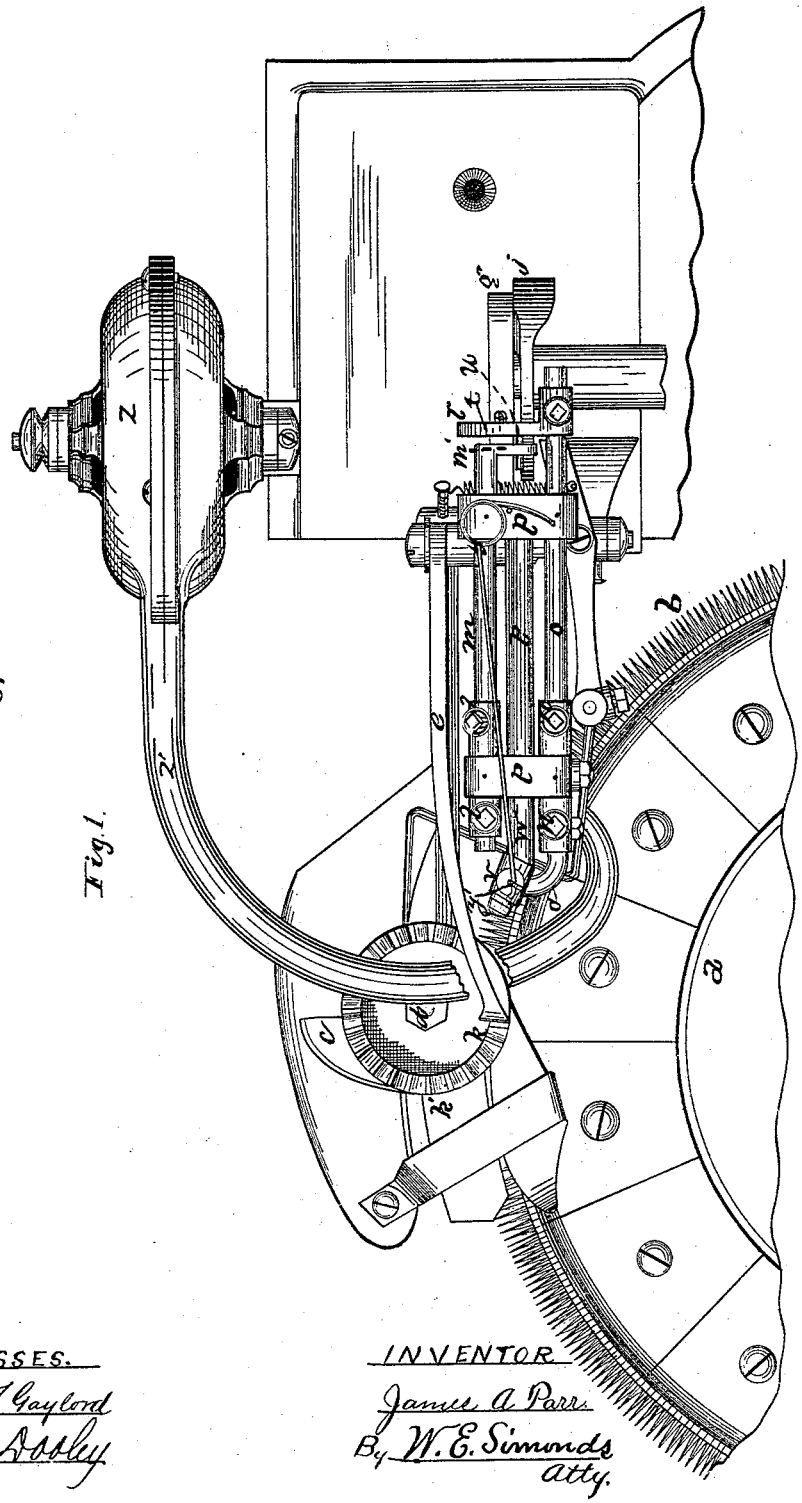

Fig. 1.

WITNESSES.

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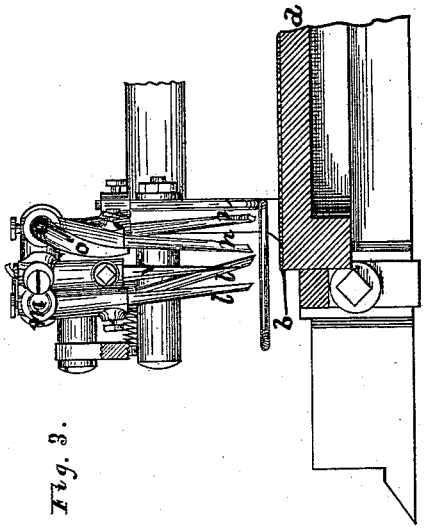

Fig. 3.

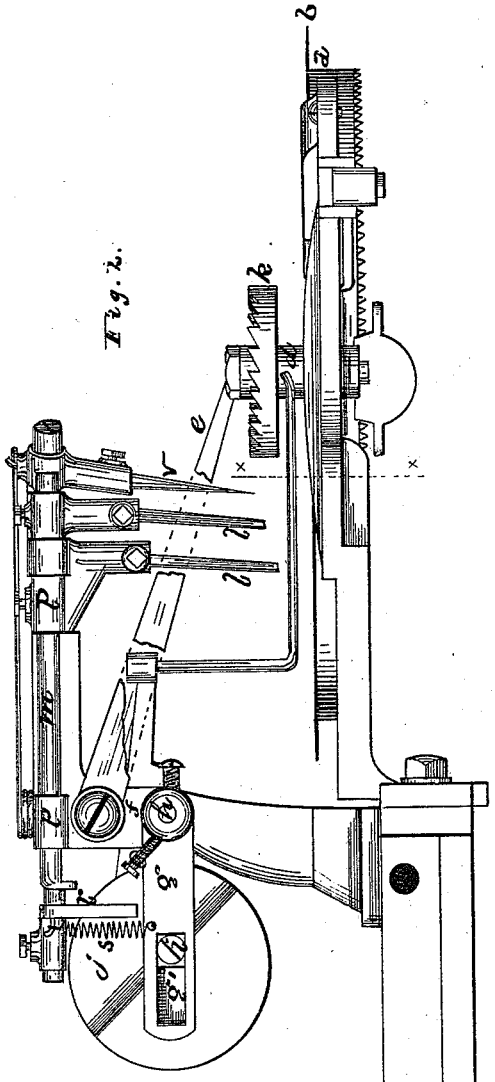

Fig. 2.

WITNESSES.

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UNITED STATES PATENT OFFICE.

JAMES A. PARR, OF NEW BRITAIN, CONNECTICUT.

IMPROVEMENT IN STOCKINET-SEAMING MACHINES.

Specification forming part of Letters Patent No. **213,298**, dated March 18, 1879; application filed July 29, 1878.

To all whom it may concern:

Be it known that I, JAMES PARR, of New Britain, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements Pertaining to a Stockinet-Seaming Machine, of which the following is a specification, reference being had to the accompanying drawings, where—

Figure 1 is a plan or top view of that part of the machine which bears my improvements. Fig. 2 is an end view, from end A, with the blower removed. Fig. 3 is a view on the line *x x*, Fig. 2, looking rearward, with the blower removed.

This invention consists in the combinations of mechanisms hereinafter specified and claimed for effecting the several operations of, first, cutting or dressing the edges of the fabric; second, picking loose the portions cut from the fabric; and, third, finally removing such portions from the machine.

Neither the rotary disk, equipped with the fringe of needles, nor the sewing-machine attachment, is of my invention.

The letter *a* denotes the rotary disk, and *b* the fringe of needles. *c* denotes a shear-blade, having an intermittent rotary movement upon and with the shaft *d*, imparted by the pawl *e*, pivoted to the vibrating arm *f*, which is in one piece with the slotted arm *g*, pivoted on shaft-pin *h*.

The pin *i*, on face of disk *j*, projects into slot *g'* in arm *g*, and, as disk *j* rotates, gives this arm, and consequently arm *f*, vibration, which gives pawl *e* a back-and-forth motion, and the pawl, acting upon ratchet *k*, gives the shear-blade its intermittent rotary movement.

The letter *k'* denotes a vertically-adjustable ledger-blade, against which the blade *c* cuts.

The letters *l l* denote picker-fingers fast on shaft *m*, and the letters *n n* denote corresponding picker-fingers fast on corresponding shaft *o*. These two shafts *m* and *o* are hung in the frame *p*, which is fast on arm *f*, and has thereby a reciprocating motion in a vertical plane, which causes the picker-fingers to advance to, and then retreat from, the needles *b*. As these picker-fingers advance to the needles they close together, and as they retreat therefrom they open; and I will now describe the means whereby such movements are effected, selecting for this purpose, in the first instance, the shaft *o*. On the rear end of this shaft is the right-angular arm *r*, made to bear by the spring *s* against the side of the cam-disk *j*, one half of which is raised from the other half, which shape gives the arm *r*, and consequently the shaft *o*, a rotary vibration, and consequently giving the picker-fingers it bears the movements I have described. The corresponding movement of shaft *m* and its picker-fingers is given by the pin *u*, fast on arm *r* and running through the elbow *m'* on the rear end of shaft *m*.

The loops of the stockinet rise in a double row above the needles *b*, and in some kinds of seaming it is requisite to separate the two by a short space or interval. This is done by the separating-finger *v*, hung obliquely on central shaft-pin *w*, its motion given by the elbow *o'* on the front end of shaft *o*, and the return-spring *y*, acting on pin *y'*.

The letter *z* denotes a rotary blower, with pipe *z'*, leading to the picker-fingers, the blast from which blows away the fiber and other loose stuff which these fingers pick from the stockinet.

With regard to the shearing device, I have to say that rotary cutters or shears vibrating in the common manner will answer the purpose, and I consider them equivalents.

The operation of these parts is as follows: The stockinet is impaled on the needles *b* ahead of the shearing device, and is carried by the disk under the operation of the shear, which cuts off such part of the stockinet as projects above the needles. The picker-fingers then descend, and as they descend close and seize such loose fiber as is left in the stockinet above the needles. The fingers now rise, and as they rise open, and the blast from the blower blows away such removed fiber and loose stuff, leaving the stockinet in a clean condition for the operation of the sewing-machine attachment.

I claim as my invention—

1. The combination of the intermittently-rotated shear-blade *c* and the ledger-blade *k'* with the needle-fringed disk *a*, substantially as and for the purpose described.

2. The picker-fingers *l n*, in combination with the needle-fringed disk *a*, the vibrating shafts, upon which the fingers are secured, a reciprocating frame carrying said shafts, and mechanism for operating said shafts and frame, substantially as and for the purpose described.

3. The combination of a blower, *z*, with disk *a*, cutting mechanism for dressing the edges of the fabric, and picking mechanism for loosening the cut portions, substantially as and for the purpose described.

JAMES A. PARR.

Witnesses:

F. H. CHURCHILL,

DANIEL J. SAVIN.