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J. A. Bradshaw.

Throstle and Cap.

Patented Dec. 8, 1832.

Fig. 1.

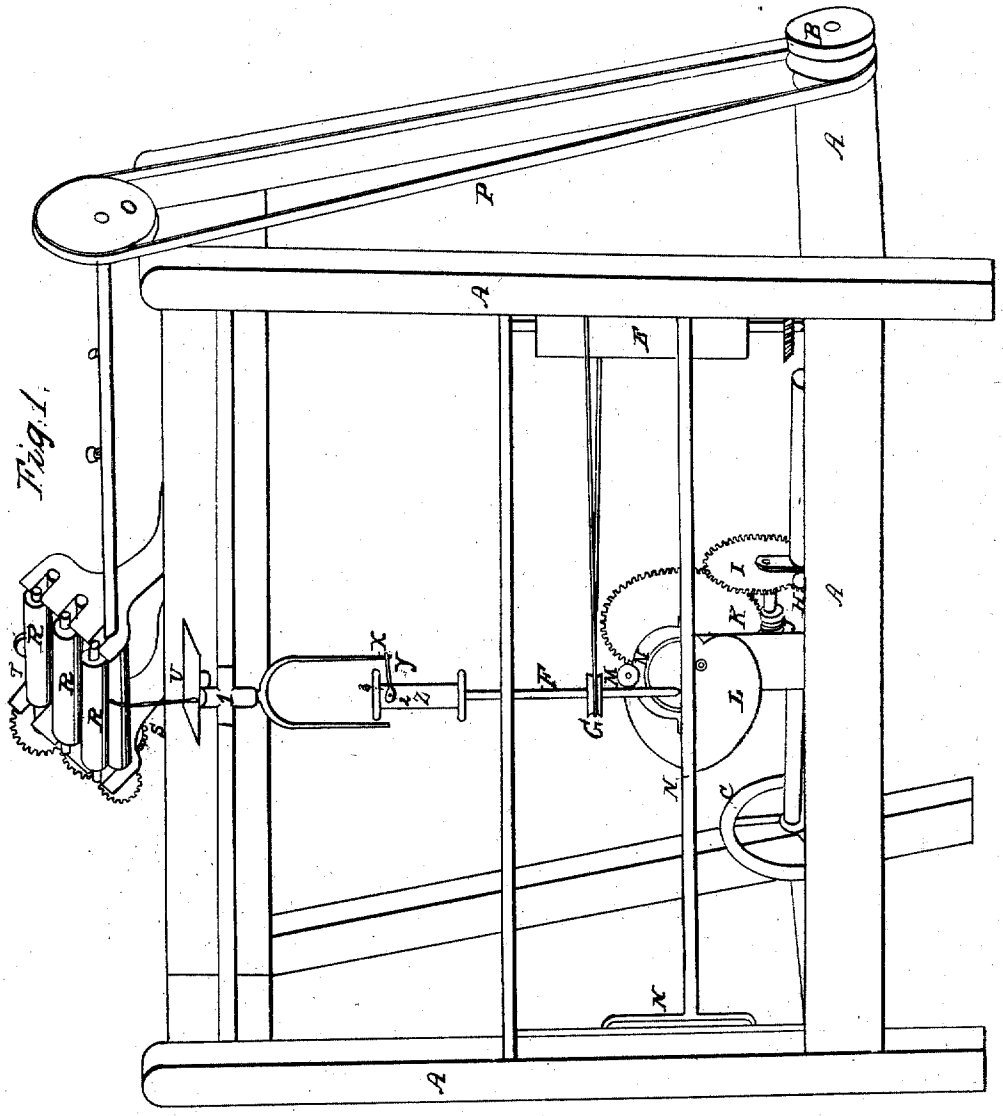
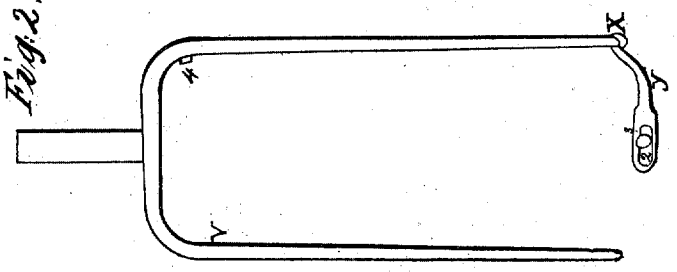


Fig. 2.



N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

7322X Dec. 8. 1832

John A. Bradshaw of Foxborough, Mass:
Letters Patent.

The Schedule referred to in these Letters Patent and making part of the same containing a description in the words of the said John A. Bradshaw himself of his improvement in the machine for manufacturing cotton roving.

To all to whom these presents shall come; Be it known that I John A. Bradshaw of Foxborough in the county of Norfolk & Commonwealth of Massachusetts have invented a new & useful improvement in a machine for the manufacturing cotton roving. & that the following is a full & exact description of the construction & operation of the said machine as invented or improved by me — A.A &c. Fig. 1. represents the frame of the said machine —
B. is a pulley on the main horizontal shaft concealed in the drawing) connected by a belt with the propelling power, on the end of said shaft is a gearing which moves the balance wheel C. on the said main shaft is a drum also concealed as aforesaid connected by a belt with the drum D. on the shaft in front — On the end of this shaft is a bevel gearing that moves the vertical drum E. said drum moves the spindle F. by a belt passing round the pulley G. on said spindle — On the other end of the front shaft is the pinion H. which gears into & moves the wheel I and the shaft of which is the worm J which moves the wheel K. on the end of which shaft, is the heart wheel L. which plays against the stud wheel M. which gives a vertical motion to the spindle by means of the traverse N.N.N.N. — O. is a pulley connected by a belt P. with the main shaft first mentioned —
This pulley is on the end of the horizontal shaft Q on the other end of which is a pinion geared into a stud wheel S which so moves the rollers R.R.R. as to give a progressive increase of velocity — Behind said rollers is the guide T. thro' which passes the cotton drawing as taken from the drawing frames — The cotton after passing between said rollers enters the friction guide U. to which is attached a weight, it then enters the flier V thence passing thro' the guide a down one of its arms & thro' the guide X at the bottom, thence passing along the coiled spring Y around a crook or projection Z. thence thro' the

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7322X

perforation D near the end of said spring, thence around the bobbin Z, which is fixed on the spindle & revolves with the same. The flier receives on its bearing at I. V is moved by the strength of the roving as it passes thro' the perforation in the spring. Fig. II. is an enlarged representation of said flier & spring with its crook or projection V perforation, in which consists the new improvement & which spring &c. may be applied to a flier of any other form. Its use is to give a slight degree of twist & greater consistency to the roving.

Witnesses
Melatiah Everett
Nancy D. Everett

John H. Bradshaw

Recd. [illegible]

[illegible] 57 01 08