

(No Model.)

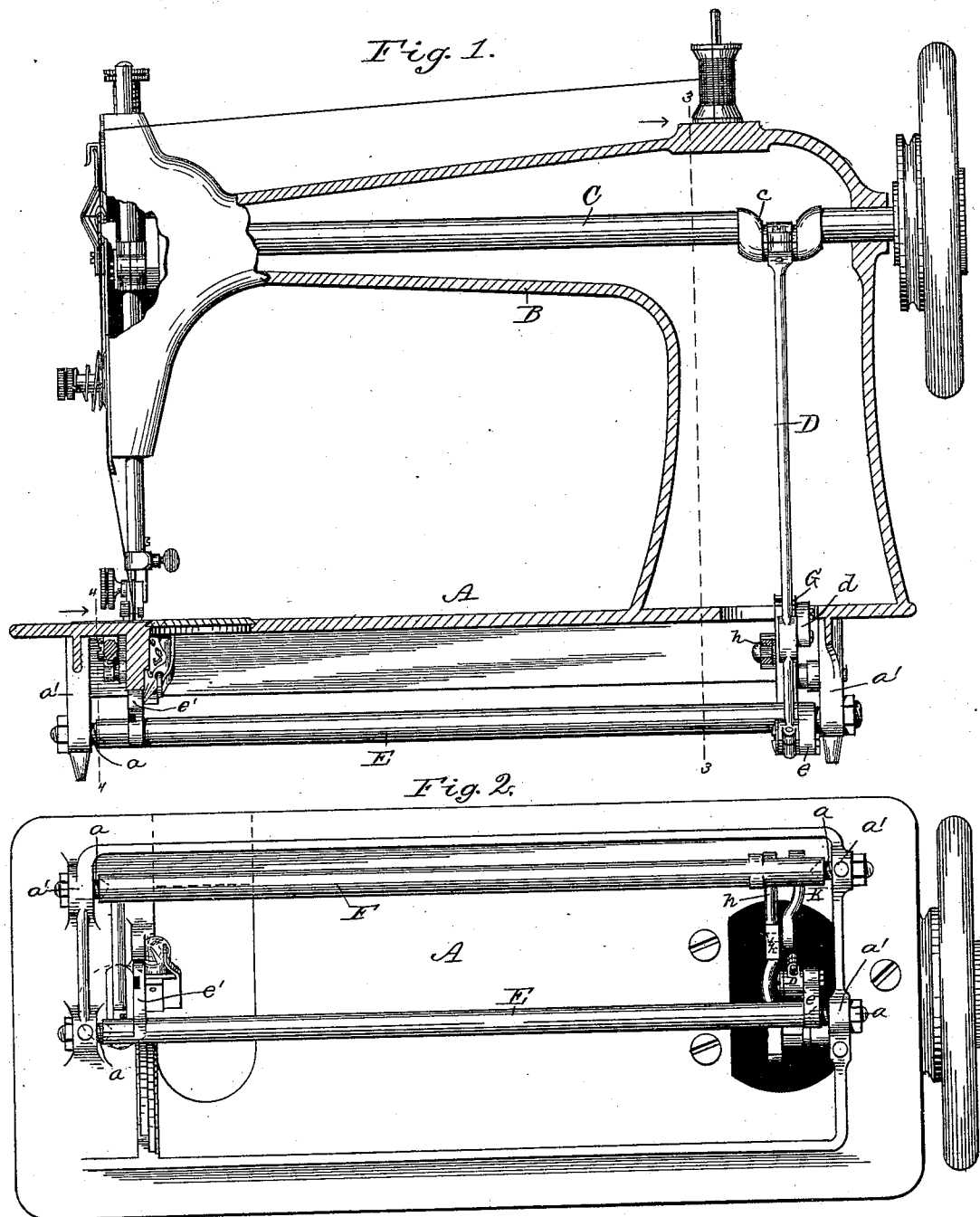
2 Sheets—Sheet 1.

J. BOLTON.

FEEDING MECHANISM FOR SEWING MACHINES.

No. 470,282.

Patented Mar. 8, 1892.



Witnesses:

A. S. Lushman

J. G. Meyers for

Inventor:

James Bolton,

by *Thos. J. Calvert*
Atty.

(No Model.)

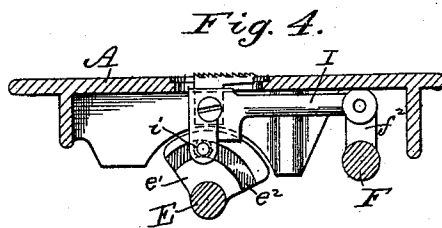
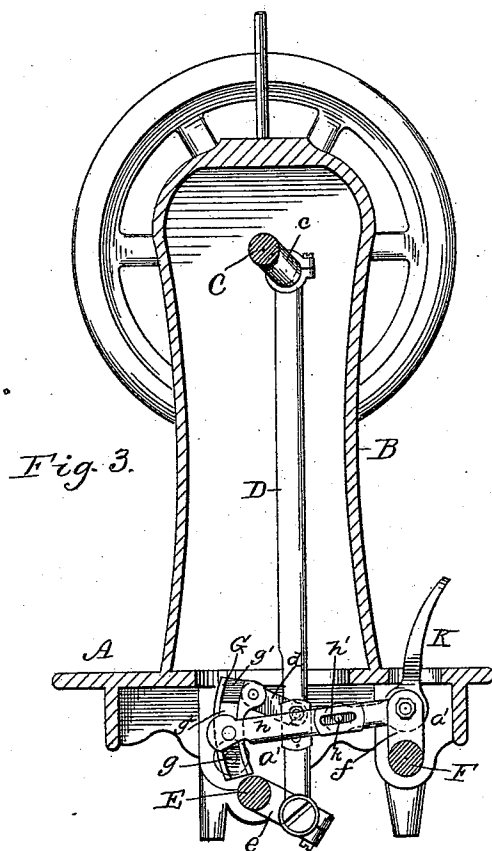
2 Sheets—Sheet 2.

J. BOLTON.

FEEDING MECHANISM FOR SEWING MACHINES.

No. 470,282.

Patented Mar. 8, 1892.



Witnesses:
A. R. Kuchman
J. G. Meyers for

Inventor:
James Bolton
by *Wm. H. Carter*
Atty.

man with said rocker, the link h , connecting the said rocker with the said rock-shaft F, and the feed-bar jointed to an arm of the said rock-shaft F and having a stud entering the cam-groove of the said segment e' .

3. In a sewing-machine, the combination, with the main shaft C, having the crank c , of the rock-shafts E and F, pivoted below the work-plate, the former having the arm e and the cam-grooved arm or segment e' and the latter having the arms f and f^2 , the pitman D, connecting the said crank with said rock-

the feed-regulating lever having a pin-and-slot connection with said link h , and the feed-bar I, jointed to the said arm f^2 and having a stud entering the cam-groove of the said arm or segment.

4. In a sewing-machine, the combination, with a vertically-vibrating shuttle-carrying arm or segment provided with a cam-groove, of a feed-bar having at one end a stud entering said cam-groove, and a rock-shaft to which the other end of said feed-bar is jointed.

In testimony whereof I affix my signature in