

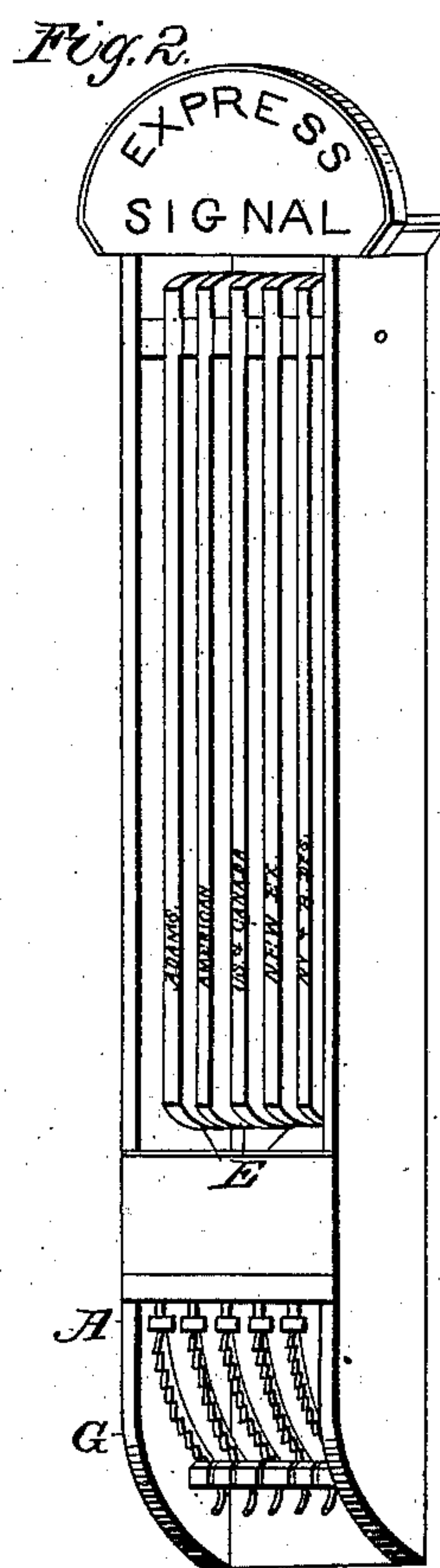
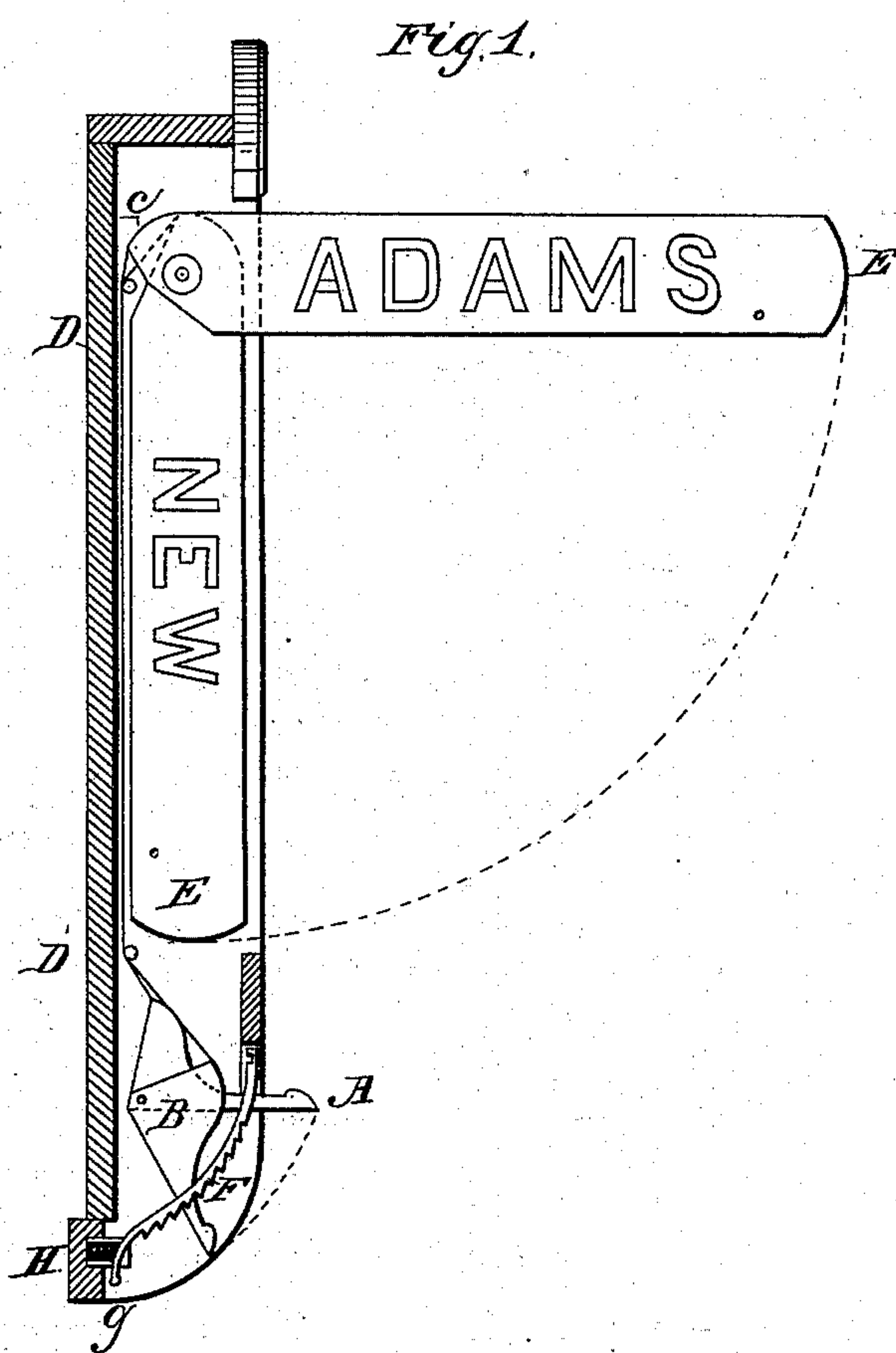
(No Model.)

A. CRAWFORD.

EXPRESS SIGNAL.

No. 274,726.

Patented Mar. 27, 1883.



Witnesses.

*Edwin P. Bone*

*Geo. W. Burnstead*

*Inventor.*

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# UNITED STATES PATENT OFFICE.

ANGUS CRAWFORD, OF BOSTON, MASSACHUSETTS.

## EXPRESS-SIGNAL.

SPECIFICATION forming part of Letters Patent No. 274,726, dated March 27, 1883.

Application filed July 8, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, ANGUS CRAWFORD, a subject of Great Britain, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Express-Signals, of which the following is a specification, reference being had to the accompanying drawings, forming part thereof.

10 My invention consists of an improved form of express-signals in which the signal-arms are operated by means of levers and ratchets; and the object of my invention is to provide a convenient and conspicuous mode of signaling for the various express companies, &c., to call.

15 In the accompanying drawings, Figure 1 gives a side view of the express-signal, showing how it is operated. A is the lever. B is the fulcrum of the lever. C is the line or chain connecting lever with signal-arm. D D are friction-rollers over which the line C works. E E show one signal-arm extended and the others lowered. F is a ratchet holding the lever in place. G is the thumb-piece for lowering the signal-arm. H is a spring at the back of the thumb-piece.

25 Fig. 2 gives a perspective view of the express-signal with all the arms E lowered. A, lever-handles; G, thumb-pieces. The express-sig-

nal box contains a number of arms painted in distinguishing colors, and bearing the names of the various express companies in conspicuous letters. When any express company is to be called the lever A is pulled down the ratchet F, which, working the line C over friction-rollers D D, extends the arm E at right angles. The signal is lowered by pressing on the thumb-piece G, which, acting on the ratchet F, liberates the lever A and allows the arm to fall.

The ratchet and lever can be arranged to operate either from the front, rear, or side, as may be most convenient.

Having fully described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. An express-signal consisting of arms E, adapted to work on one common pivot, and operated, by means of cords C, over rollers D D by levers A and ratchets F, substantially as described.

2. In combination with an express-signal having arms E, the levers A, rollers D D, cords C, ratchets F, and thumb-pieces G, substantially as and for the purpose described.

ANGUS CRAWFORD.

Witnesses:

FRANKLIN HEDGE,  
EDWIN J. BONE.