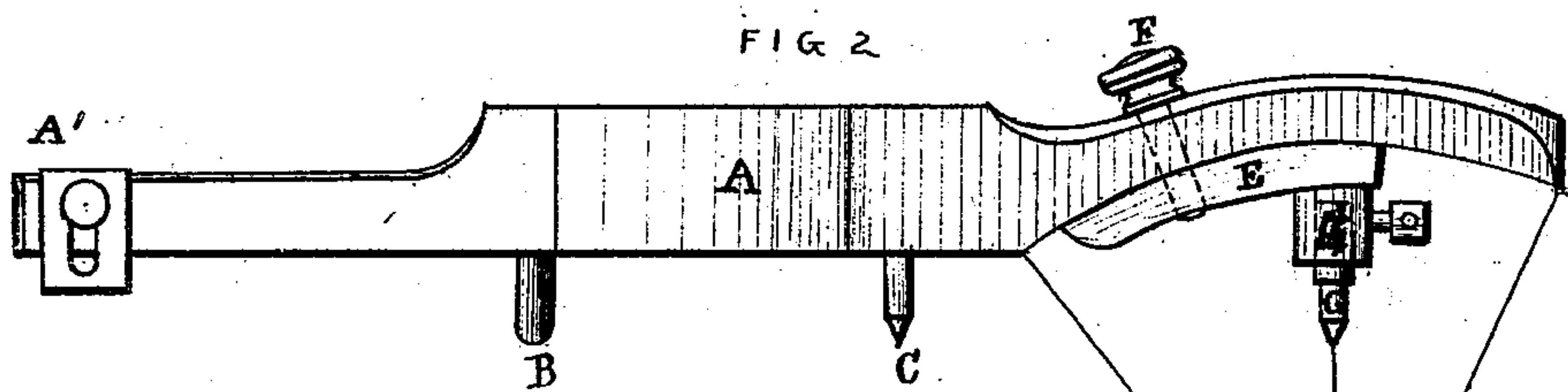
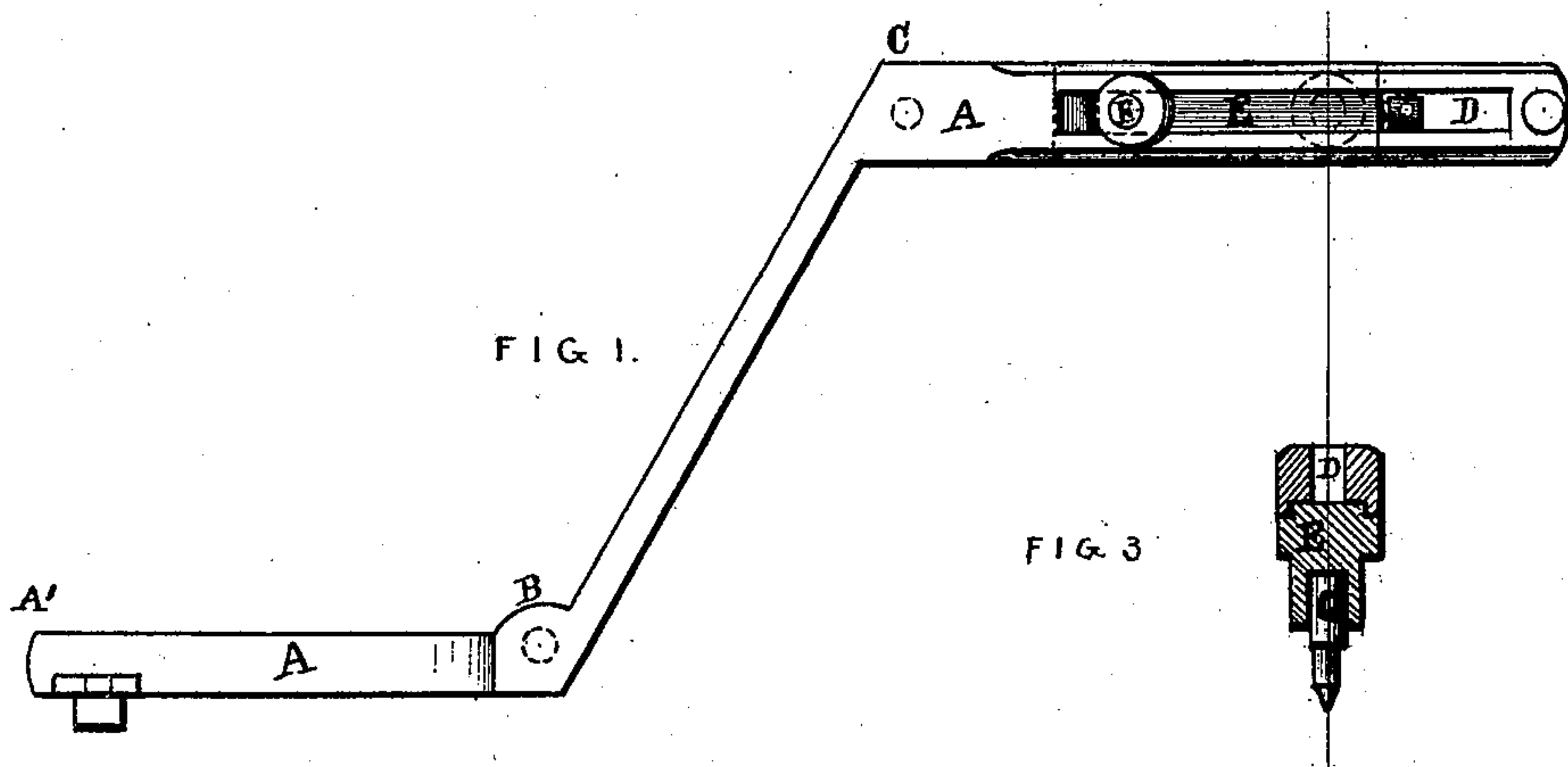


J. Hope,

Diamond Holder.

No. 96591.

Patented Nov. 9. 1869.



WITNESSES.

Edward C. Ames

Peter F. Hughes

INVENTOR

John Hope

United States Patent Office.

JOHN HOPE, OF PROVIDENCE, RHODE ISLAND, ASSIGNOR TO HOPE & CO., OF SAME PLACE.

Letters Patent No. 96,591, dated November 9, 1869.

IMPROVEMENT IN DIAMOND-HOLDERS FOR ENGRAVING PRINTERS' ROLLERS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JOHN HOPE, of the city and county of Providence, in the State of Rhode Island, have invented certain new and useful Improvements in Diamond-Holders for Use in Machines for Engraving Rolls for Calico-Printers.

My invention consists in the combination of an adjusting-weight and the diamond-stem, and in the arrangement of the two in such a manner, that by a single operation, they may be adjusted simultaneously; and I do hereby declare that the following specification, taken in connection with the drawings furnished, and forming a part of the same, is a true, clear, and exact description thereof, reference being had to the drawings.

Figure 1 represents, in plan view, one of my improved diamond-holders.

A is the body of the holder. When placed in a machine, the end marked A' is in communication with the lifting-device.

B and C are pivot-fulcra, upon which the holder is tilted or operated.

D is a longitudinal slot in the body of the holder, near its outer end.

E is the adjusting-weight, to which the diamond-stem is attached.

The weight is accurately fitted to slide in the slot longitudinally, and may be secured at any desired point, by means of the thumb-screw F.

Figure 2 represents a holder in elevation view.

Similar letters of reference are used to designate the various parts in all the figures.

G is the diamond-stem. The diamond is inserted

in the lower end, in the usual well-known manner. This stem is secured, by a set-screw, in a socket formed at the outer end of the weight E.

Figure 3 represents, in a cross-vertical section, the slotted end of the holder, the weight E, and diamond-stem G.

It will be observed that the outer end of the holder is curved, longitudinally and vertically, in such a manner that the diamond-stem G, whether advanced or receded, shall, as far as possible, point to the centre of the roll being engraved, thus rendering the engraved lines practically uniform, so far as relates to the natural cutting-effect of the diamond.

Heretofore, this curved and slotted end has been used with an adjustable diamond-stem; but as it was moved out from the fulcrum C, it became necessary to counterbalance it by means of adjustable weights, placed upon the inner end of the holder designated A'.

My improvement is intended to, and does practically accomplish the adjustment of both stem and weight by a single operation.

Having thus described my invention,

I claim as new, and desire to secure by Letters Patent—

In combination with a curved and slotted diamond-holder, the curved weight, fitted thereto, and connected with the diamond-stem G, substantially as shown and described.

JOHN HOPE.

Witnesses:

ORVILLE PECKHAM,
EDWARD C. AMES.