

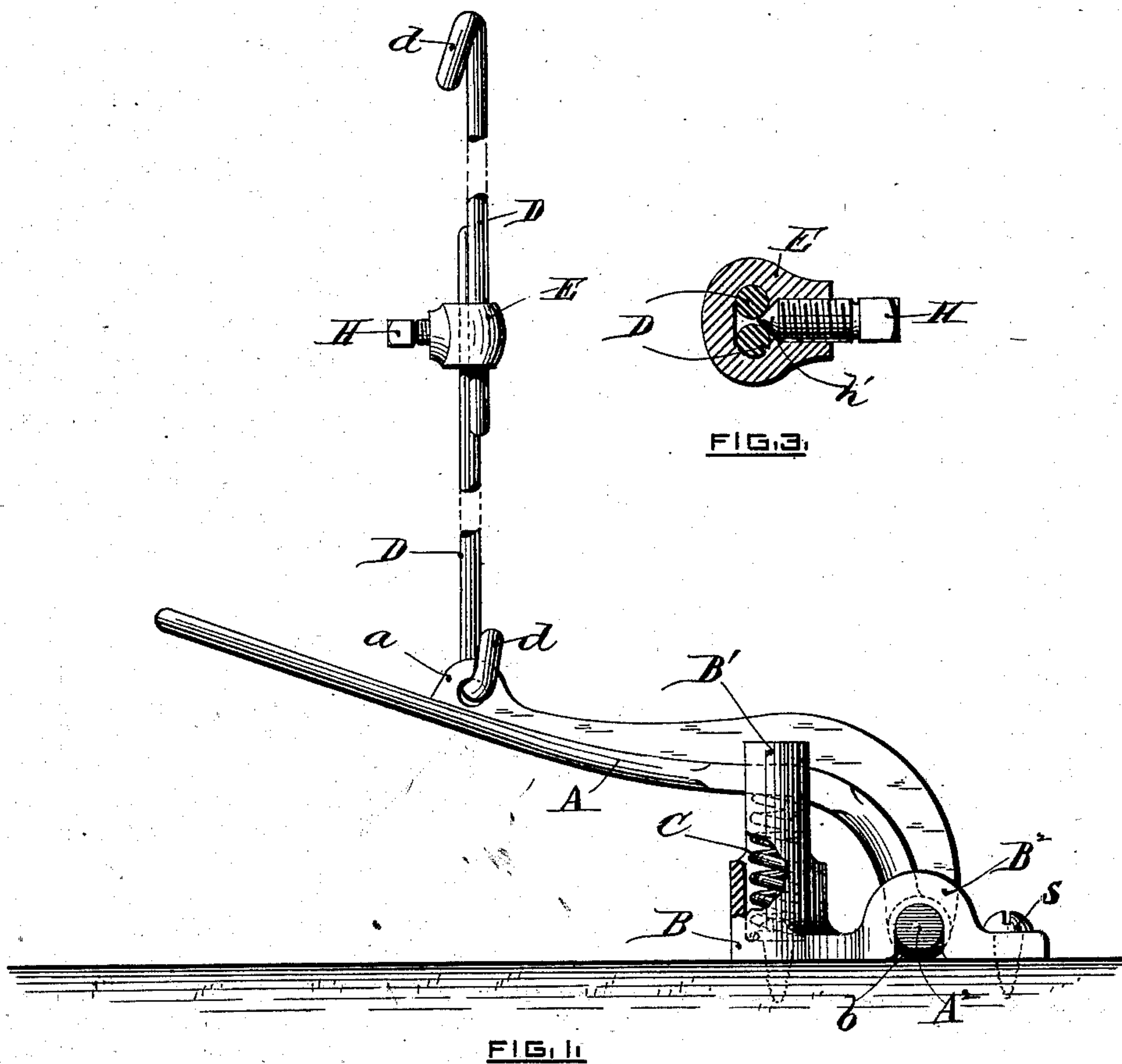
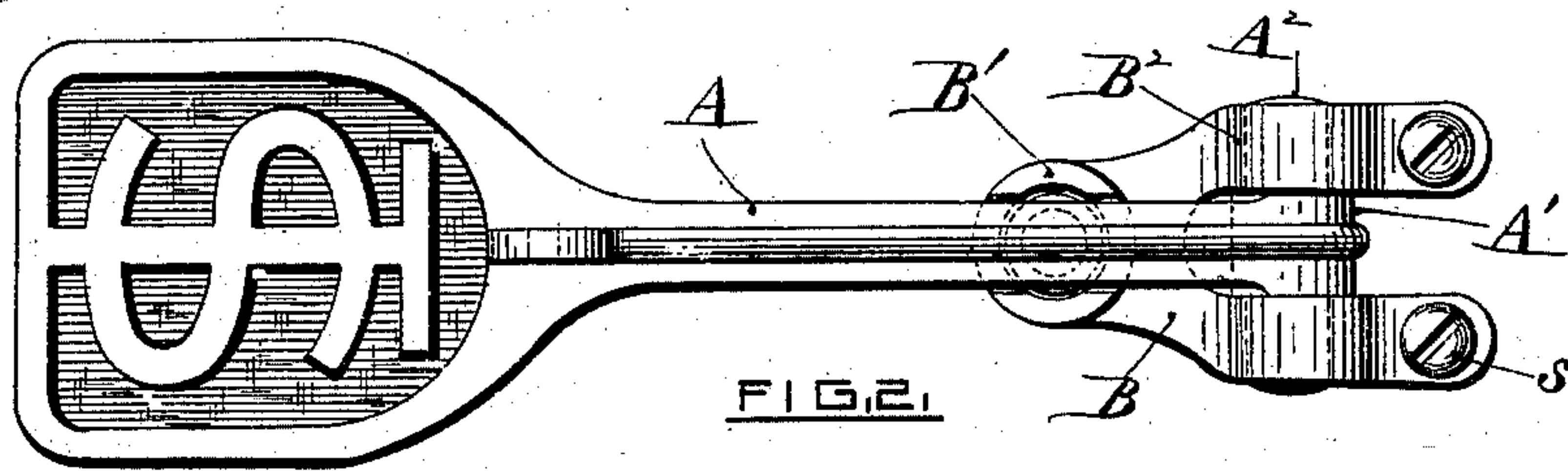
(No Model.)

J. F. THAYER & F. A. SMITH, Jr.

TREADLE AND CONNECTION.

No. 274,992.

Patented Apr. 3, 1883.



WITNESSES.

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# UNITED STATES PATENT OFFICE.

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## TREADLE AND CONNECTION.

SPECIFICATION forming part of Letters Patent No. 274,992, dated April 3, 1883.

Application filed February 21, 1883. (No model.)

*To all whom it may concern:*

Be it known that we, JAMES F. THAYER and FRANKLIN A. SMITH, Jr., citizens of the United States, residing at Providence, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Treadles and Connections; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Our invention relates to improvements in treadles and connections for the same; and it consists of a base-plate provided with bearings adapted to retain the treadle in position, the journals of the latter being cast or formed thereon. The treadle is further adapted to be adjustably attached to the machine or implement (requiring to be so operated) by a connection made in two parts, and adjustably secured together by a coupling of novel form, as will be more fully hereinafter set forth.

In the accompanying drawings, which fully illustrate our invention, Figure 1 is a side elevation, partly in section, showing the treadle and connection complete. Fig. 2 is a plan view of the same, having the connection removed. Fig. 3 is a transverse section through the coupling, shown enlarged.

A represents the treadle, provided with a foot-plate at one end thereof, the opposite end or fulcrum being provided with the journals  $A^2$ , the latter being enlarged at  $A'$ , (see Fig. 2,) thereby serving to retain the treadle in position, both laterally and vertically, the whole being cast or formed in one piece. Said treadle is further provided with a rib terminating near its forward end in an eye,  $a$ .

B represents the base-plate, provided with two bearings,  $B^2$ , open on the underside thereof at  $b$ , and adapted to receive the journals  $A^2$  of the treadle.

$B'$  represents a hollow cylindrical projection, open on top, and adapted to receive the treadle A and coiled spring C, the whole to be secured to the floor by screws  $s$ , as shown.

D E represent the means for connecting the treadle to the machine, &c., which is to be operated thereby, and consists of the two rods, D D, bent at  $d d$ , said rods being secured together by the coupling E, the latter being provided with an oblong hole through which the rods D freely pass. Said coupling is further provided with the set-screw H, having a conical point,  $h'$ , which forces (when in use) the rods against the ends of the oblong hole of the coupling, (see Fig. 3,) thereby making an efficient and inexpensive means of adjusting the length of the connection D.

It will be observed that the treadle A and plate B are adapted to go together "in the rough," thereby saving the expense of drilling and fitting a pin for the fulcrum of the treadle. When the parts A and B are locked together, and the latter secured to the floor, the several parts coact to form an efficient treadle device.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The combination of the treadle A, having an eye,  $a$ , and journals  $A^2$ , with the base-plate B, provided with bearings  $B^2$  and hollow projection  $B'$ , the latter adapted to receive the spring C, the whole constructed and arranged as herein shown and described.

2. The adjustable connection D and coupling E, the latter adapted to receive the rods D, and provided with the set-screw H, in combination with the treadle A and plate B, substantially as shown and set forth.

In testimony whereof we have affixed our signatures in presence of two witnesses.

JAMES F. THAYER.

FRANKLIN A. SMITH, JR.

Witnesses:

GEO. W. PRENTICE,

GEO. A. MUMFORD.