

(No Model.)

G. M. PELTON.

SAW MILL DOG.

No. 289,853.

Patented Dec. 11, 1883.

Fig - 1 -

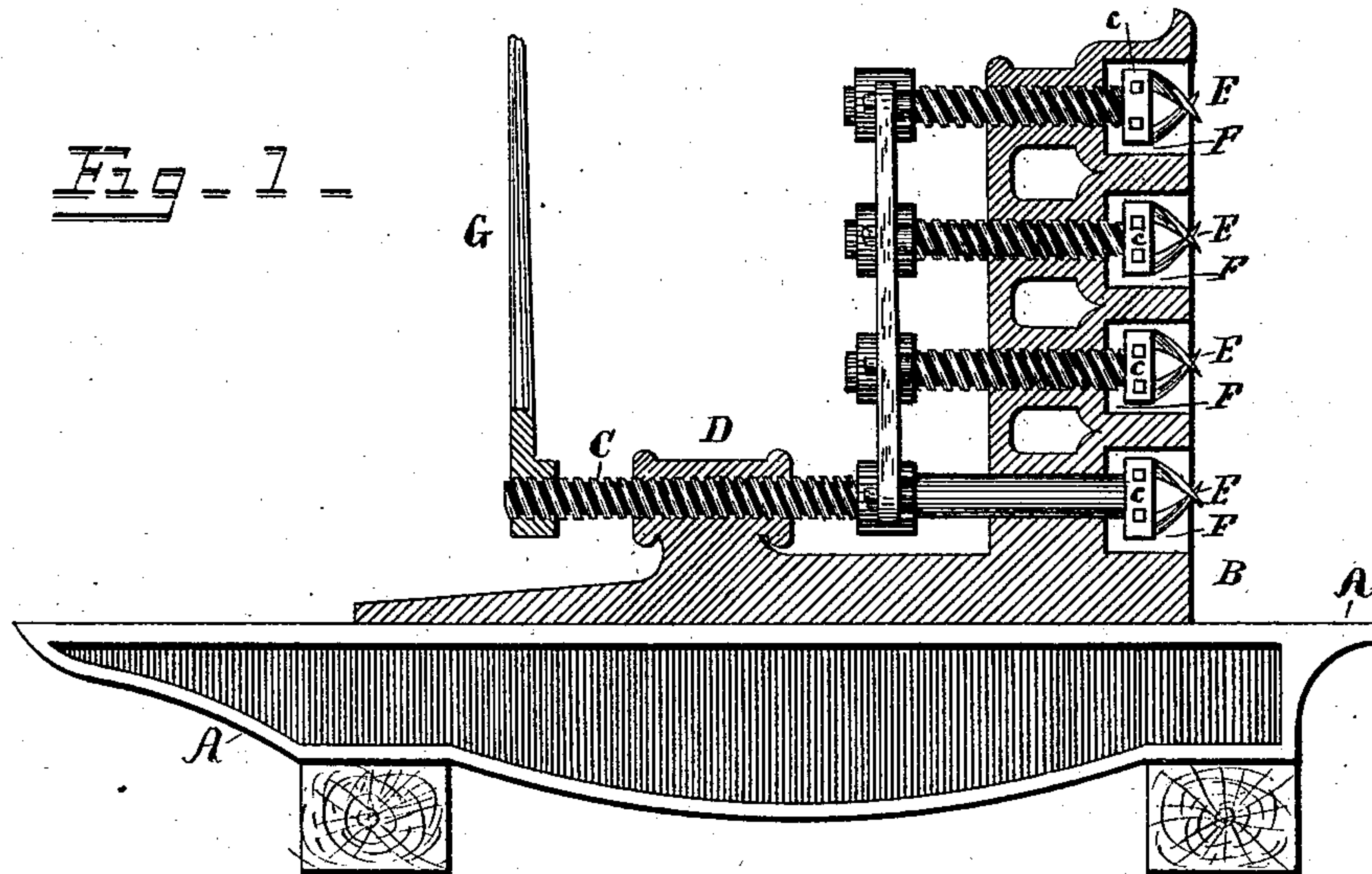
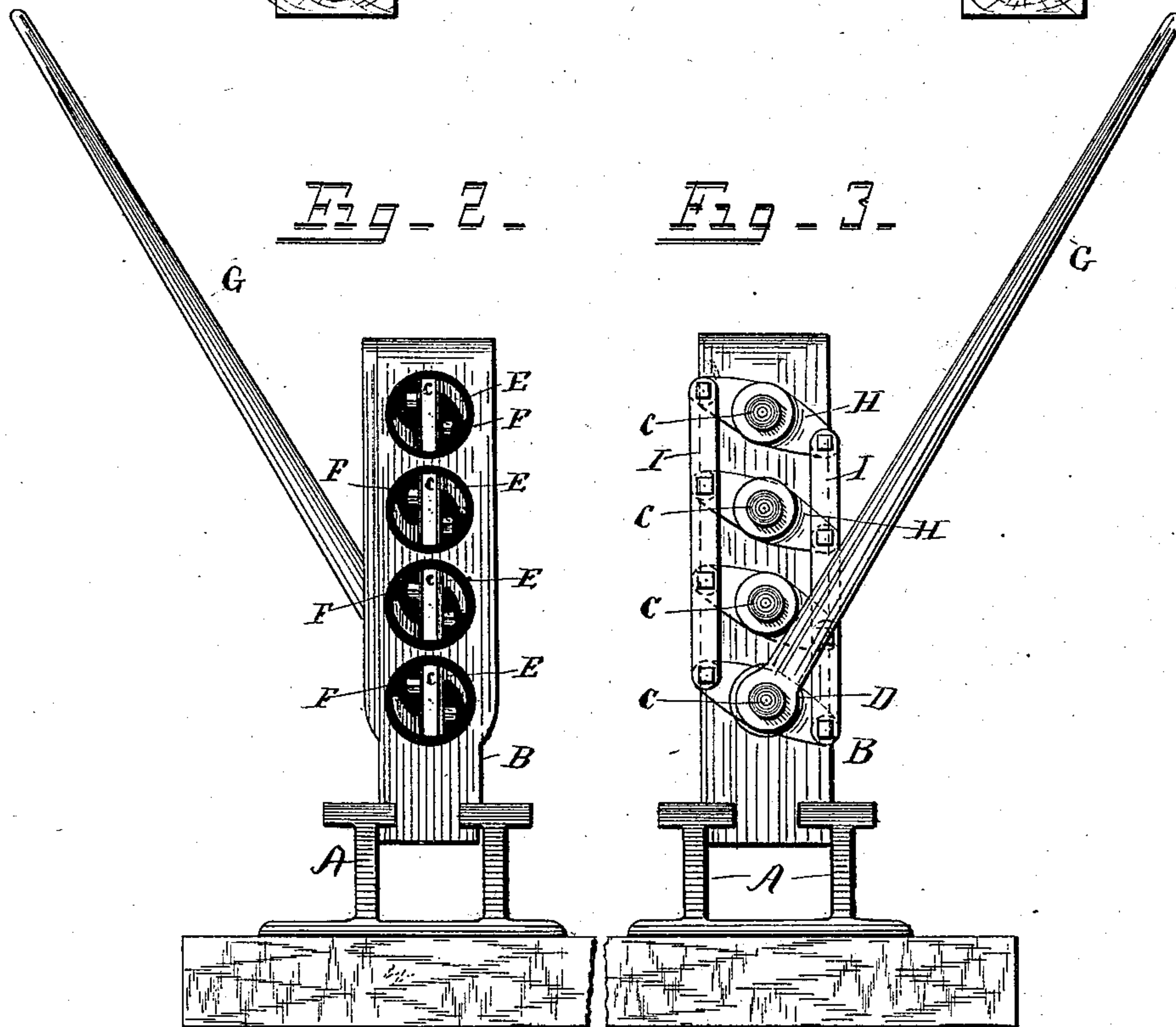


Fig - 2 -

Fig - 3 -



WITNESSES:

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INVENTOR

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GEORGE M. PELTON, OF BELMONT, NEW YORK.

SAW-MILL DOG.

SPECIFICATION forming part of Letters Patent No. 289,853, dated December 11, 1883.

Application filed October 27, 1883. (No model.)

To all whom it may concern:

Be it known that I, GEORGE M. PELTON, a citizen of the United States of America, residing at Belmont, in the county of Allegany and State of New York, have invented certain new and useful Improvements in Saw-Mill Dogs, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to an improvement in saw-mill dogs; and it consists in the peculiar construction and arrangement of parts hereinafter more fully described, and then pointed out in the claims.

15 In the accompanying drawings, Figure 1 shows a side elevation of a head-block with a knee partly in section; Fig. 2, a front elevation of the same, and Fig. 3 a back elevation.

20 A represents a head-block of any suitable form, on which runs the knee B. At C is shown a screw-shaft, which works in a corresponding female screw cut in the knee at D. The front or head *c* of this screw-shaft is T-shaped, and has attached at each side, by bolts or other fastenings, the spirally-curved bits E, which, with the T-shaped end of the screw, works in a recess, F, cast in the face of the knee. Securely fastened on the opposite end of the shaft is a lever, G, by operating which the shaft is turned, and at the same time it is fed forward by the action of the screw, and the bits E advance out of the recess F, and are thus forced into a log or board placed against the face of the knee, and as the bits are formed with a trifle more lead than the thread of the screw, the log or board will be drawn tightly against the face of the knee, and by this means held firmly in position. By reversing the position of the lever, the bits retreat within the recesses, and their points are thus protected from accident.

In the description thus far I have referred to only a single shaft, which will for some purposes be sufficient; but for most purposes I propose to use, besides the shaft C, several shorter shafts, as shown in the drawings, each of which has on its front end a pair of the bits E and on its rear end an arm or lever, H, all the arms being connected by a link or links, I,

to a similar arm, H, on the long shaft D, so that by moving the lever G all the shafts will be moved simultaneously and equally, and thus a log of any size or a board of any width may be expeditiously and securely dogged. 55

By this construction and arrangement of parts, a powerful dog is made that is easily operated, powerful in its action, and not likely to get out of order.

It is evident that the construction may be modified without varying, essentially, from my invention. I have shown, for instance, two bits to each shaft; but it is obvious that more or less than two bits may be employed, and that they may be attached in a different way from that shown. The shafts, instead of being connected by the links I, may be connected by gearing, or by chain and sprocket-wheels, or other known mode of connection. The female screws are shown formed in the knee, but they may be formed separately and attached thereto. Any of these changes and others may be made without departing from the spirit of my invention. 60 65 70

I am aware of the Patent No. 112,572, but consider my positively-acting screw-shafts as differing, essentially, from the devices shown in said patent, as they are not positive in their action, and the inclines on the bearings in the patent referred to will not withdraw the bits, nor prevent them from being forced out. 75 80

What I claim as new is—

1. The combination, with a knee, B, of the screw-shaft C, working through a female screw formed in the knee, and provided with a dog, E, at one end, and a lever for operating it at the other end, substantially as described. 85

2. The combination, with a knee, B, of the T-headed screw-shaft C, working through a female screw formed in the knee, and having a spiral bit secured on each side of the head, substantially as described. 90

3. The combination, with a knee, B, of a series of screw-shafts, each having bits at one end, and means, substantially as described, connecting the screw-shafts and causing them to turn and move forward simultaneously, as set forth. 95

4. The combination, with a knee, B, having a series of recesses in its face, of a series 100

of bits turning therein, and means, substantially as described, for causing said bits to simultaneously turn and advance out of said recesses when moved in one direction, and to
5 retreat into said recesses when turned in the opposite direction, as and for the purpose set forth.

In testimony whereof I affix my signature, in presence of two witnesses, this 17th day of October, 1883.

GEORGE M. PELTON.

Witnesses:

J. H. BRANSON,
W. P. CLARK.