

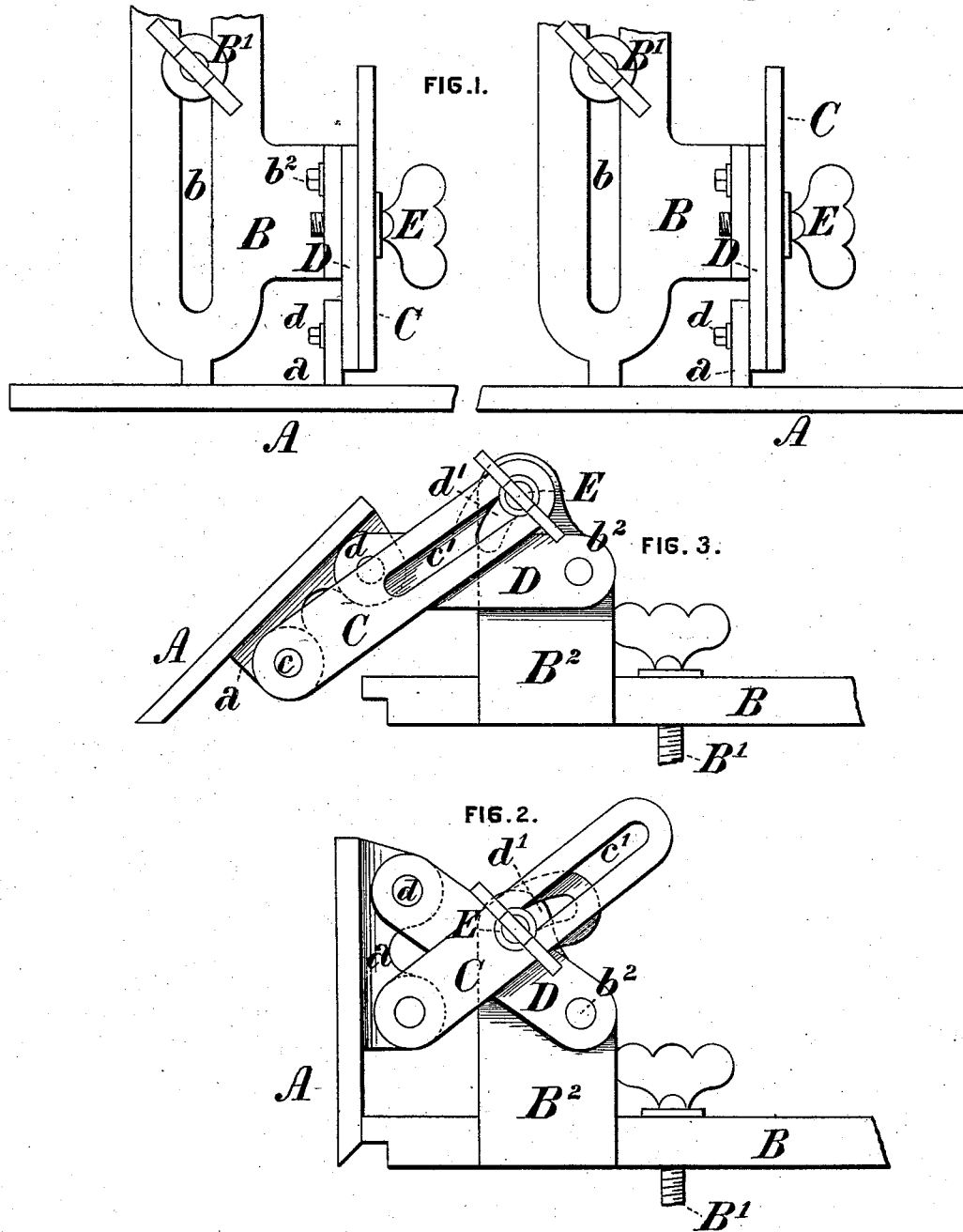
(No Model.)

F. H. SWEET.

BEVEL GAGE.

No. 264,421.

Patented Sept. 12, 1882.



WITNESSES:

N. H. Culver

Geo. T. Kelly

INVENTOR

Frederick H. Sweet,
by Collier & Bell
attys.

UNITED STATES PATENT OFFICE.

FREDERICK H. SWEET, OF WILLIAMSPORT, PENNSYLVANIA, ASSIGNOR TO
ROWLEY & HERMAN, OF SAME PLACE.

BEVEL-GAGE.

SPECIFICATION forming part of Letters Patent No. 264,421, dated September 12, 1882.

Application filed June 5, 1882. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK H. SWEET, of Williamsport, in the county of Lycoming and State of Pennsylvania, have invented certain new and useful Improvements in Bevel-Gages, of which improvements the following is a specification.

The object of my invention is to provide convenient and desirable means for presenting material at any desired angle to a cutter or saw, as in a hand planer or jointer, rip-saw, or other wood-working machine. To this end my improvements consist in a guide-bar connected adjustably to fixed supports by slotted links and clamping-screws, as hereinafter more fully set forth.

In the accompanying drawings, Figure 1 is a plan or top view of a bevel-gage embodying my invention, and Figs. 2 and 3 end views of the same as adjusted perpendicularly and at an angle to the bed or table respectively.

In the practice of my invention I construct, of cast or wrought metal, a guide bar or rest, A, having its face trued or smoothed to a plane, and provided with lugs *a* upon its back adjacent to its ends. The rests or supports B, by which the guide-bar is connected to the table of the machine on which it is to be employed, are provided with longitudinal slots *b*, through which the screws B', by which it is secured to said table, pass, so that the guide-bar may be adjusted relatively to the cutter or saw as may be required by the dimensions of the stock to be operated on. A link, C, having a straight longitudinal slot, *c*, is pivoted, by a pin or stud, *c*, to the lower of the pair of lugs *a*, adjacent to each end of the guide-bar A, and a link, D, is pivoted at one end, by a pin or stud, *d*, to the upper of each of said pairs of lugs, and at the other end, by a pin, *b*², to a standard, B², upon each of the fixed supports B. A segmental

slot, *d'*, the radius of which is struck from the pin, *b*² as a center, is formed in a projection upon each of the links D, and clamping-screws E, which engage female threads in the standards B², pass through the slots *c'* *d'* of the links C D. Each pair of links is thus pivoted at two points to the guide-bar A and at one point to the support B, and the links of the pair are intermediately and adjustably clamped one to the other. The relative adjustment of the links and guide-bar is positively maintained by the friction of the clamping-screws, and the guide-bar is thereby held firmly at any desired angle to the table, which angle may be readily changed, as required, by the manipulation of the clamping-screws.

I claim as my invention and desire to secure by Letters Patent—

1. The combination, substantially as set forth, of a guide-bar, a fixed support, and a double-link connection, one member of which is pivoted to the guide-bar and to the support and the other member pivoted to the guide-bar and adjustably clamped to the first member.

2. The combination, substantially as set forth, of a guide-bar, a pair of fixed supports, a pair of links each pivoted at one end to the guide-bar and at the other to one of the supports, and having a segmental slot struck from the guide-bar pivot as a center, a pair of longitudinally-slotted links each pivoted to the guide-bar, and a pair of clamping-screws each passing through one of the longitudinal and one of the segmental slots and engaging a female thread upon one of the fixed supports.

FREDERICK H. SWEET.

Witnesses:

THOS. H. HARTMAN,
J. S. TAYLOR.