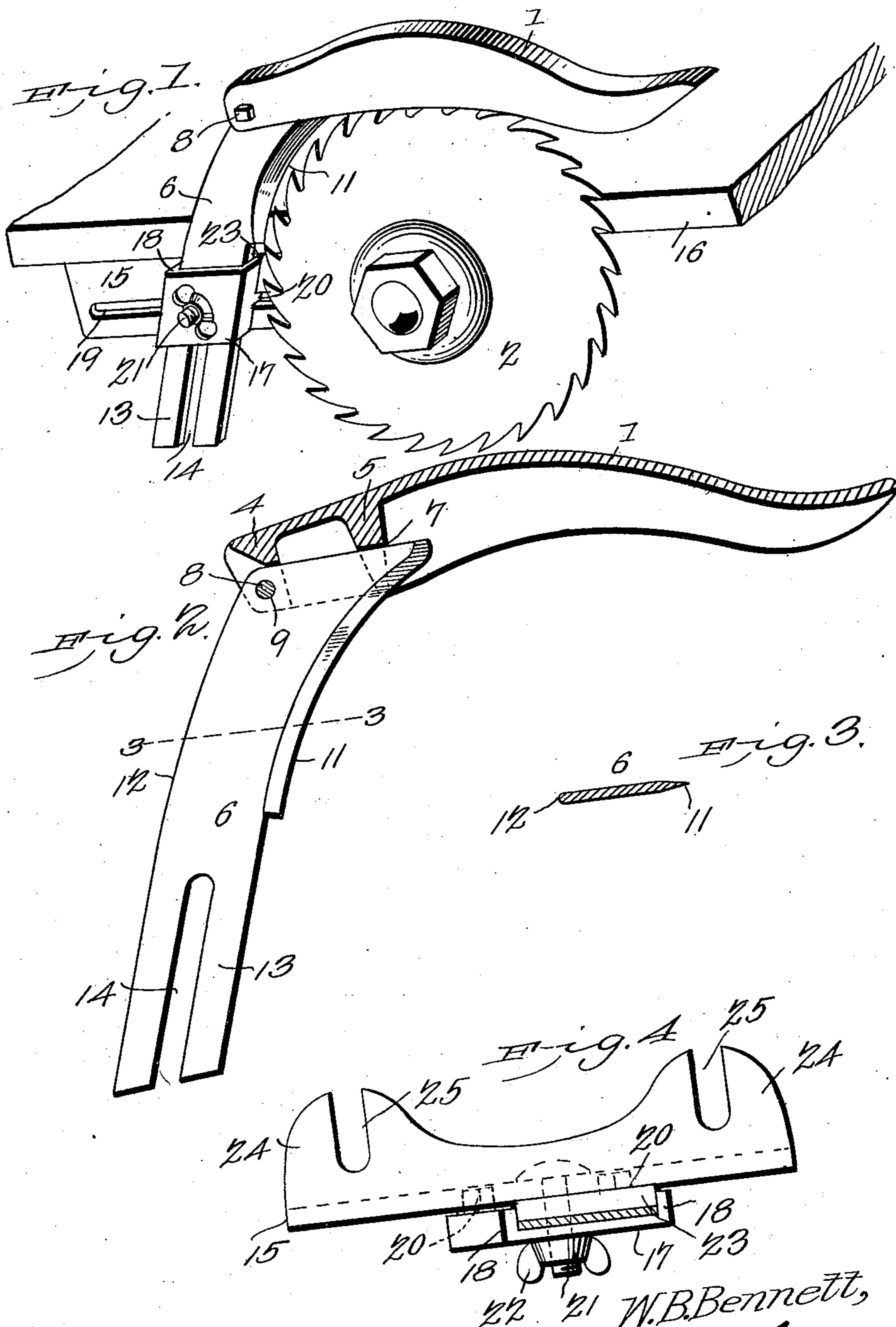


No. 713,196.

Patented Nov. 11, 1902.

W. B. BENNETT.
SAW GUARD.
(Application filed May 6, 1902.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM B. BENNETT, OF GRAND RAPIDS, MICHIGAN.

SAW-GUARD.

SPECIFICATION forming part of Letters Patent No. 713,196, dated November 11, 1902.

Application filed May 6, 1902. Serial No. 106,182. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM B. BENNETT, a citizen of the United States, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented a new and useful Saw-Guard, of which the following is a specification.

The invention relates to improvements in saw-guards.

10 The object of the present invention is to improve the construction of saw-guards and to provide a simple, inexpensive, and efficient device adapted to be readily applied to a saw and capable of protecting the saw and of preventing the dust from flying into the face and eyes of the operator.

20 A further object of the invention is to increase the strength and durability of saw-guards and to enable the same to be readily adjusted to aline them properly with a saw and to provide simple and efficient means for spreading the material to prevent the same from pinching the saw.

25 Another object of the invention is to provide a spreading device of this character which will permit the material to be readily drawn backward without catching upon it or the saw.

30 The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

35 In the drawings, Figure 1 is a perspective view of a saw-guard constructed in accordance with this invention and shown applied to a saw. Fig. 2 is a longitudinal sectional view, the spreader being shown in elevation. Fig. 3 is a detail sectional view on the line 40 3 3 of Fig. 2, illustrating the construction of the front and rear edges of the spreader. Fig. 4 is a detail view of the adjustable clamp or holder.

45 Like numerals of reference designate corresponding parts in all the figures of the drawings.

50 1 designates a hood or saw-guard proper, forming a cap for a saw 2, adapted to prevent anything from falling upon the saw and capable also of keeping the dust from the face of the operator, and the said guard, which is provided with sides or flanges, is supported

at the rear by transverse lugs 4 and 5, which are bifurcated for the reception of the upper end of the spreader 6. The bifurcation 7 of the lug 5 forms a shoulder, which rests upon the upper end of the spreader, and the rear lug and the sides of the guard are perforated for the reception of an adjusting-screw 8, which also passes through a perforation 9 of the spreader. The slot or bifurcation of the rear lug extends to within a short distance of the top of the guard, and the perforation at one side of the lug 4 is threaded for the reception of the threaded portion of the screw 8, which is adapted to compress the sides of the lugs sufficiently to cause the hood to bind against the upper end of the spreader, whereby the hood is effectually prevented from vibrating. By preventing the hood from vibrating the upper end of the parts are also prevented from wearing out at the perforation 9. The bolt or screw 8 pivots the guard to the spreader, and it may be readily loosened to permit the hood or guard to be swung backward from over the saw. The upper portion of the spreader is tapered, as clearly shown in Fig. 2 of the drawings, and the slots or bifurcations of the lugs 4 and 5 form a seat for the spreader.

80 The spreader, which consists of a thin steel blade, is provided at its upper portion with a front oppositely-beveled edge 11, which is adapted to readily enter the kerf cut by the saw in the material, and it will spread the said material and prevent the same from pinching the saw. The rear edge 12 of the upper portion of the spreader is rounded or beveled to prevent the spreader from catching the material should the latter be drawn backward from the saw before completing the cut.

95 The lower portion 13 of the spreader is provided with a slot or bifurcation 14 and is engaged by a clamp or holder which is adjustably secured to a saw-table 16. The clamp or holder consists of an upright plate 15 and a jaw 17, consisting of a plate having inclined front and rear flanges 18 and arranged at an inclination. The plate 15 is provided with a longitudinal slot 19, and the front and rear inclined flanges 18 have tongues or projections 20, extending into the horizontal slot 19 and preventing the jaw from rotating on

the clamping-bolt 21. The clamping-bolt 21 is provided with a thumb-nut 22, and it extends through the slot or bifurcation 14 of the lower portion of the spreader. The jaw 5 is provided with a block 23 of wood or other suitable material which engages the inner face of the lower portion of the spreader and offsets the jaw from the plate to cause the former to clear the saw, which operates close 10 to the upper portion of the jaw at the front of the same.

The plate is provided at its top with a horizontal flange 24, having slots 25 arranged transversely of it and extending to the edge 15 of the flange and receiving bolts or other suitable fastening devices for securing the clamp or holder to the saw-table. By this construction the clamp or holder may be readily adjusted to aline the spreader properly with 20 the saw. The longitudinal slot 19 permits the clamping-jaw to be adjusted backward and forward on the plate 15, and the clamp permits the spreader to be adjusted to raise and lower the hood, while the slots 25 permit 25 any lateral adjustment of the saw-guard. The hood is also adapted to prevent the material being cut from rising and getting upon the top of the saw.

What I claim is—

30 1. A saw-guard forming a cap and consisting of a top and sides and provided at its rear portion with bifurcated lugs located between the sides, and a spreader pivoted in the slot or bifurcation of one lug and extending into 35 the slot or bifurcation of the other lug and

supporting the hood, substantially as described.

2. A saw-guard comprising a hood, a spreader supporting the hood, an adjustable plate, and a clamp receiving the spreader and 40 provided with side flanges slidably interlocked with the adjustable plate, substantially as described.

3. A saw-guard comprising an adjustable plate having a slot, a clamp provided with 45 side flanges having tongues extending into the slot, a spreader arranged in the clamp, a fastening device operating in the said slot and holding the clamp in engagement with the spreader and securing the said clamp to 50 the adjustable plate, and a hood supported by the spreader, substantially as described.

4. A saw-guard comprising an adjustable plate having a slot, a clamp provided with 55 side flanges having tongues extending into the slot, a spreader arranged in the clamp, a block also located in the clamp and interposed between the spreader and the adjustable plate, a fastening device operating in 60 the slot and connecting the clamp the block and the plate and securing the spreader in its adjustment, and a hood supported by the spreader, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in 65 the presence of two witnesses.

WILLIAM B. BENNETT.

Witnesses:

JOSEPH O. BELLAIR,
CHARLES STAHR.