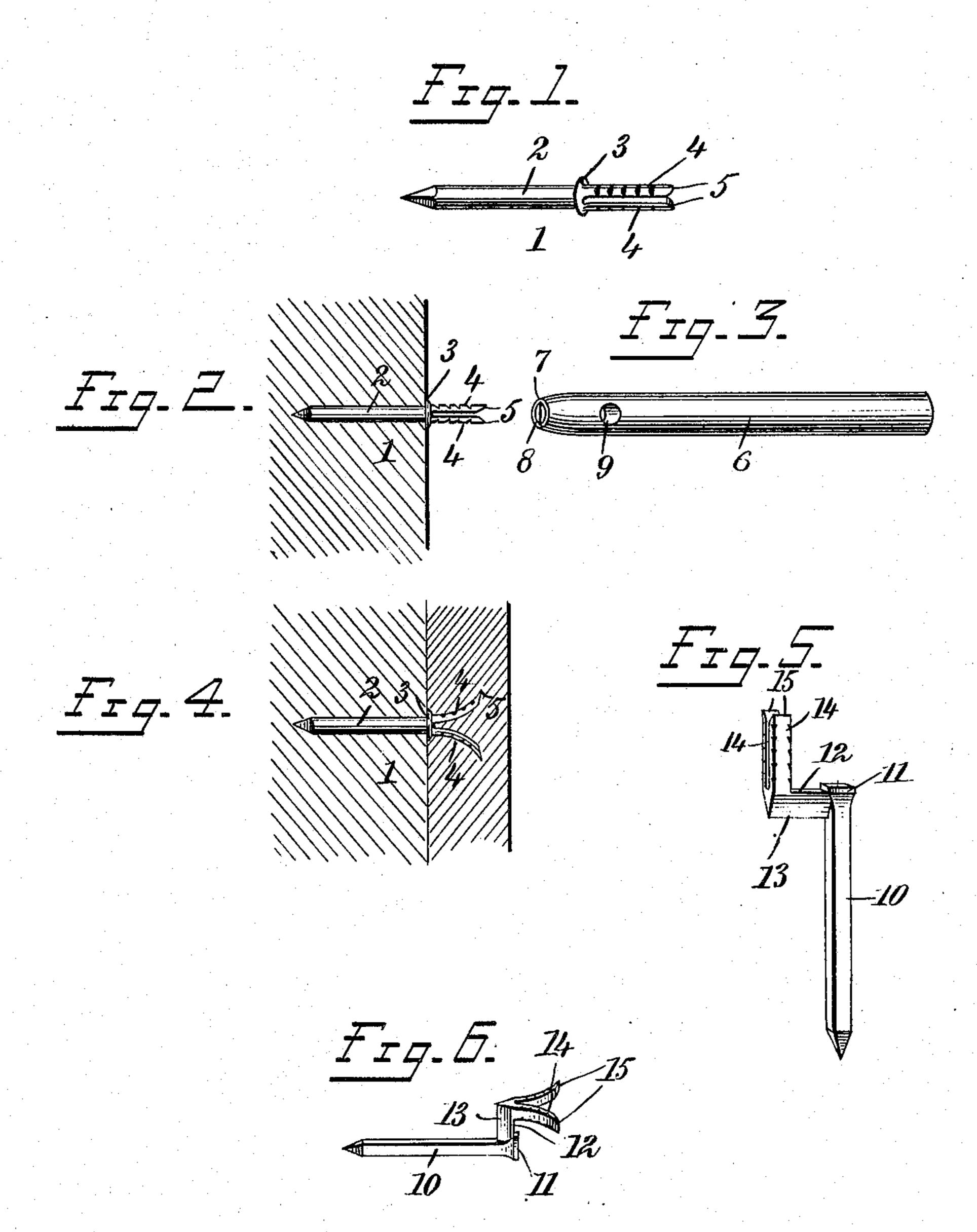
C. A. BIRDSALL.

NAIL.

APPLICATION FILED AUG. 18, 1906.



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CHARLES ALBERT BIRDSAIL, OF HOLDEN, MISSOURI.

NAIL.

No. 847,888.

Specification of Letters Patent. Latented March 19, 1907.

Application filed August 18, 1906. Serial No. 331,129.

To all whom it may concern:

Birdsall, a citizen of the United States, and I driving operation. A hole 9 passes transa resident of Holden, in the county of John-5 son and State of Missouri, have invented a new and Improved Nail, of which the following is a full, clear, and exact description.

This invention is an improved nail especially designed to be used in connection with to all kinds of woodwork where a smooth finish is desired. The nail is constructed with a novel form of prongs projecting from its head, which serve, in connection with the body of the nail, to bind two pieces of timber to-15 gether, the body of the nail when the two pieces are secured being contained in one of the timbers and the prongs in the other, the nail-head occupying an intermediate position.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of one form of my improved nail. Fig. 2 shows the nail after it has been driven into a piece of timber. Fig. 3 is a perspective view of a special tool employed in driving the nail. Fig. 4 is a 30 view disclosing the shape taken by the nail after two pieces of timber, which are also shown, have been secured together. Fig. 5 is a perspective view of a modification of the nail shown in Fig. 1, and Fig. 6 is a perspec-35 tive view showing the shape assumed by the nail after it has been used in securing two pieces of timber together.

Referring more especially to Figs. 1, 2, and 4, the numeral 1 indicates a nail having a 40 body portion 2 and a head 3, of the usual wirenail construction. Projecting from the top of the head 3, in alinement with the body 1 and of substantially the same diameter, is an extension longitudinally bifurcated through 45 its center, forming prongs 4 at each side thereof. These prongs are scored on their outer faces with triangular notches and beveled outwardly from the bifurcation on their outer ends, providing chisel edges 5.

For driving the nail into a piece of timber I preferably employ a special tool, (shown in Fig. 3,) which comprises a punch 6, having a concentric hole 7 entering one end, the latter being divided by a cross-plate 8. This forms 55 recesses in the end of the punch to exactly fit the prongs 4 and permit the nail to be driven

without interference therewith, the end of Be it known that I, CHARLES ALBERT | the punch bearing on the head 3 during the versely through the punch 6 and communi- 60 cates with the hole 8, enabling the hole 8 to be kept free of dirt and also serving as a means to indicate to the workman when the prongs of the nail are set in the right position for the grain of the wood which is to be en- 65 gaged by them.

After the body of the nail has been driven home, as shown in Fig. 2, by the tool illustrated in Fig. 3 a second piece of timber is applied to the head of the nail and ham- 70 mered in contact with the first piece of timber, as shown in Fig. 4. This causes the prongs 4 to enter the second piece of timber and spread apart on so entering, due to the action of the outward bevel of the chisel 75 edges 5. The two pieces of timber are then securely clenched together, the scoring in the prongs positively preventing the separation of the parts.

In Figs. 5 and 6 I have shown a modified 80 form of nail, comprising a body portion 10, with a head 11, shaped in the fashion of a clout-nail. Extending just underneath the head 11 from the body 10 is a perpendicular arm or portion 12, beveled on both sides to 85 form a chisel edge 13 on its under edge. From the outer end of the arm 12 vertically rises a portion of substantially the shape of the body of the nail and bicurcated longitudinally, providing prongs 14, corresponding 90 to the prongs 4 or the nail just described. These prongs are scored on their corners, as also beveled outwardly from the bilurcation at their upper ends, forming chisel edges 15, which act in the use of a nail the same as dis- 95 closed in Fig. 4.

In driving the nail shown in Fig. 5 no special form of tool is required; but an ordinary hammer is used to strike the head 11 of the nail in the usual manner. The prongs 14 be- 100 ing offset from the body of the nail makes this possible. The chisel edge 13 of the arm 12 adapting this arm to readily enter the wood and the head 11 extending slightly above the arm 12 prevents said arm from coming in 105 contact with the hammer, which is an important feature.

Although I have particularly described the invention in detail, I consider that I am entitled to such modifications as fall within the 110 scope of the annexed claim.

Having thus described my invention, I

claim as new and desire to secure by Letters Patent—

A nail comprising a body portion having a head at one end thereof, and prongs extending from the opposite side of the head, said prongs having their extremities beveled outwardly and provided with scoring on the outer faces.

In testimony whereof I have signed my name to this pecification in the presence of to two subscribing witnesses.

CHARLES ALBERT BIRDSALL.

Witnesses:

JAMES T. SIMPSON, ARNOFF B. NEWLAND.