C. G. BISHOP.

SCAFFOLD LADDER.

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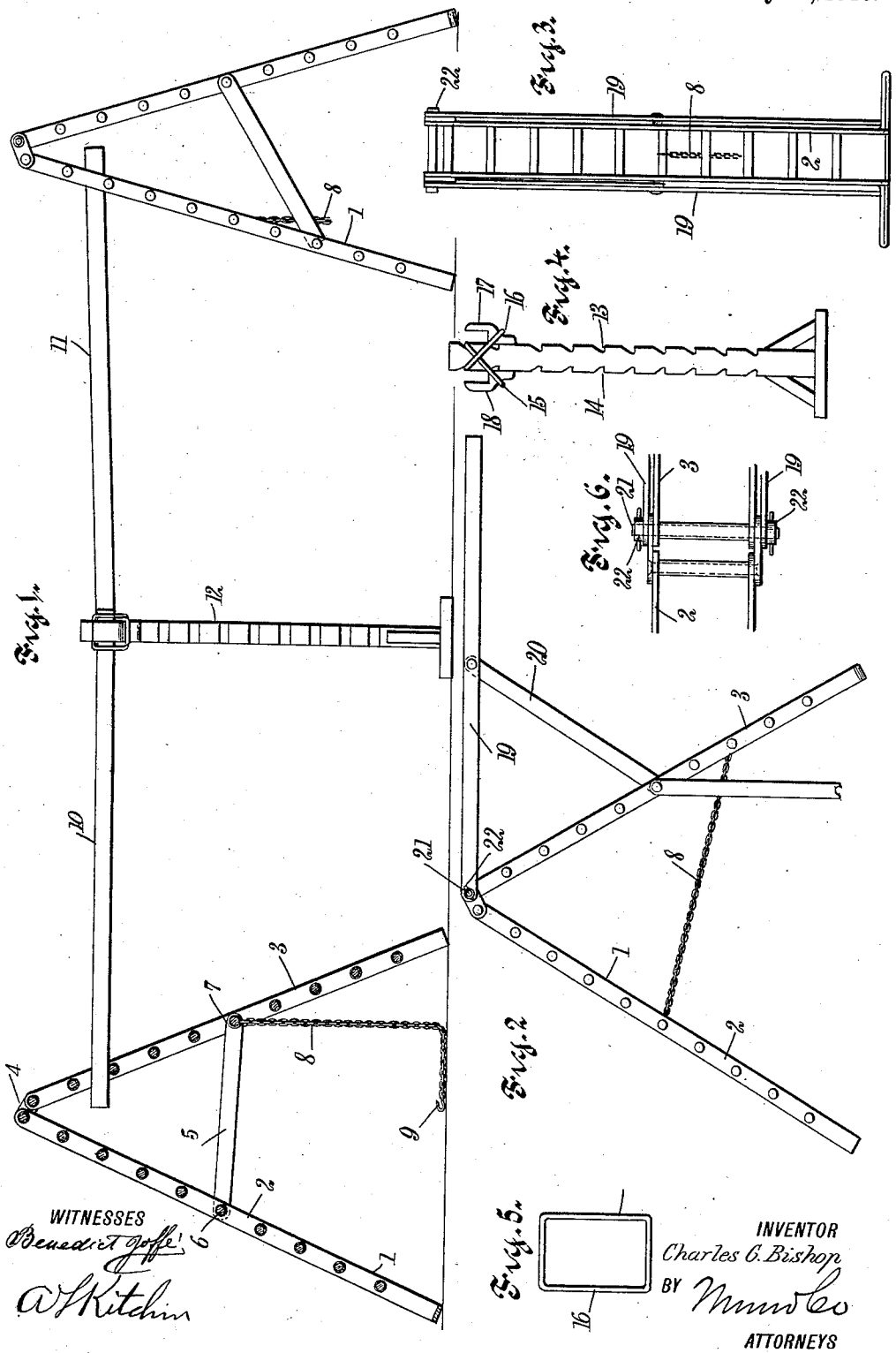
Patented July 29, 1913.



WITNESSES

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SCAFFOLD-LADDER.

1,068,849. Specification of Letters Patent. Patented July 29, 1913.

Application filed February 5, 1912. Serial No. 675,440.

To all whom it may concern:

Be it known that I, CHARLES G. BISHOP, a citizen of the United States, and a resident of Southampton, in the county of Suffolk and State of New York, have invented a new and Improved Scaffold-Ladder, of which the following is a full, clear, and exact description.

This invention relates to improvements in scaffold ladders and has for an object the arrangement of improved means designed to be adapted to be variously adjusted and rearranged for accomplishing a plurality of purposes, all of which relate to the use of scaffolding of various kinds.

A further object of the invention is to provide an improved scaffolding device formed of two members connected by a pivotal link and carrying braces for holding the supporting members a proper distance apart and locking the same in that position.

A still further object of the invention is to provide a scaffolding ladder associated with intermediate supports designed to support scaffolding bars.

A still further object of the invention is to provide a scaffolding ladder formed with one or more pivotal arms removably connected at the pivotal connection of part of the scaffolding ladder and associated with braces and members whereby the arms may be set at any desired angle in respect to the ladder and locked in that position so as to act as a table or support on either side or both sides of the ladder proper, the arrangement being such as to adapt the ladder to act as a scaffolding support upon roofs of houses.

In carrying out the objects of the invention, a scaffolding ladder is provided which is formed with a pair of ladders connected together at one end by a pair of links whereby the ladders may be folded properly and yet remain pivotally connected together. A bracing member is pivotally connected with one of the ladders and engaging the opposite ladder for bracing the ladders at any desired distance apart. When two of the scaffolding ladders are associated together, an auxiliary support co-acting with the ladders is provided which supports the scaffolding bars intermediate their length.

The scaffolding ladder proper may be used in various capacities as a support for scaffolding, as an ordinary ladder, and as a scaffolding support for use on roofs of various shapes.

A practical embodiment of the invention is represented in the accompanying drawings forming a part of this specification in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a side view of an embodiment of the invention; Fig. 2 is a side view of a slightly modified construction; Fig. 3 is an edge view of the ladder construction shown in Fig. 1; Fig. 4 is a front view of an intermediate support embodying certain features of the invention; Fig. 5 is a detail front elevation of the retaining means used in connection with the structure shown in Fig. 4; and Fig. 6 is a fragmentary top plan view showing the upper central part of the structure shown in Fig. 2.

Referring to the accompanying drawings by numerals, 1 indicates a ladder structure formed of parts 2 and 3 connected by any desired number of links 4, preferably two. By providing the links 4 the parts 2 and 3 may be folded properly together so as to extend parallel and occupy a minimum space. When it is desired to hold the parts 2 and 3 a short distance apart, the brace 5 pivotally mounted at 6 to part 2 is caused to engage one of the rings of part 3, the brace 5 being formed with a notch 7. A chain 8 is connected with part 3 and is adapted to have the hook 9 thereof hooked over any of the rings of part 2 for preventing any undue spreading of the parts 2 and 3.

In Fig. 1, two of the ladder structures are shown, having scaffolding supporting beams 10 and 11 positioned thereon. In order to support the intermediate ends of the beams 10 and 11, an intermediate auxiliary support 12 is provided. The intermediate support 12 is formed with a plurality of apertures 13 and 14 for accommodating links 15 and 16. These links are adapted to engage bracket members 17 and 18, and support the same at any height desired. The brackets 17 and 18 are adapted to receive the beams 10 and 11 for properly supporting the same, as shown in Fig. 1. If the beams 10 and 11 were made of a

single piece the same could be positioned on one of the brackets 17 and 18 and be supported centrally.

In Fig. 2 will be seen a slightly modified structure in which the ladder structure 1 has secured to it an arm 19 on which boards or the like may be provided for presenting a table or supporting surface. The arm 19 is supported by a brace 20 pivotally connected therewith and engaging one of the rings of part 3 of the ladder structure 1. A bar 21 acting as the top rung of part 3, extends not only through the links 4, but entirely through the one or more arms 19 and has mounted thereon a nut 22 whereby the arm 19 is removably mounted in place.

The construction shown in Fig. 2 could be used for various purposes, including scaffolding for the roof of a house, as well as a support on which a person may stand when repairing a wall or the like. The construction and arrangement shown in Fig. 1 is designed more especially to be used by plasterers, as the same may be arranged at such a height as to permit the plasterers to commence at the top of the wall and plaster downwardly, the supporting bars or beams 10 and 11 being gradually moved downward as the operation on the wall is continued. Of course a reverse movement could be used equally well.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:—

In a device of the class described, a supporting device formed with an upright member having a plurality of notches therein arranged on opposite sides, said notches being arranged in pairs, the notches of each pair being in the same horizontal plane, a pair of loosely mounted independent brackets arranged on said upright member on the sides having said notches, each of said brackets being formed with an offset portion on its lower end, and a link for each of said brackets fitting over said upright member and said brackets and into the offset portion of said brackets and into some of the notches of said upright member whereby the brackets are adjustably supported on said upright member, said links being crossed when the brackets are arranged in the same horizontal plane for holding the brackets in such a position as to support a member on each bracket in the same plane.

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

CHARLES G. BISHOP.

Witnesses:
E. F. MURDOCK,
PHILIP D. ROLLHAUS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."