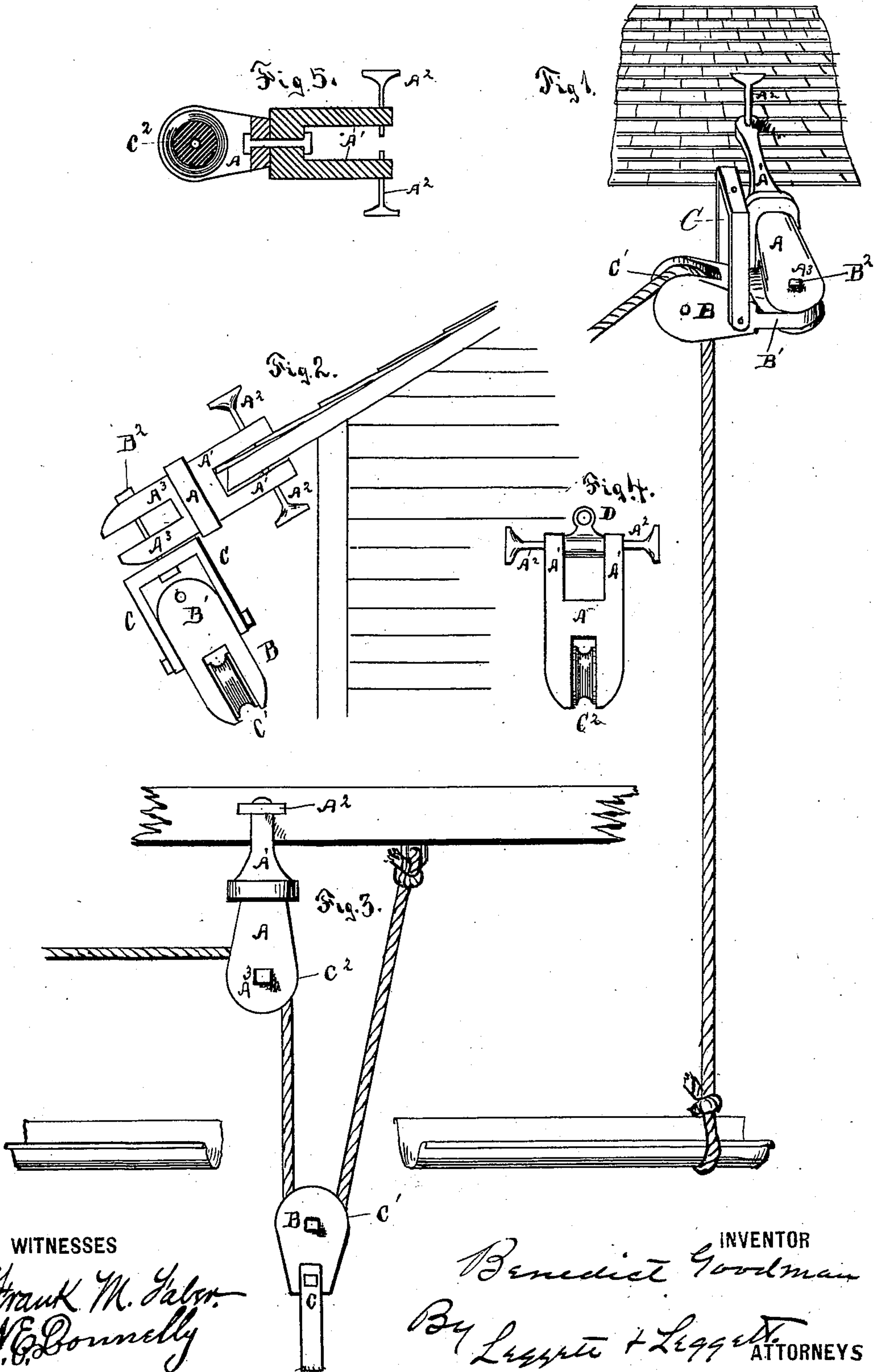


B. GOODMAN.
Hoisting Device.

No. 229,999.

Patented July 13, 1880.



UNITED STATES PATENT OFFICE.

BENEDICT GOODMAN, OF AUBURN, INDIANA.

HOISTING DEVICE.

SPECIFICATION forming part of Letters Patent No. 229,999, dated July 13, 1880.

Application filed December 22, 1879.

To all whom it may concern:

Be it known that I, BENEDICT GOODMAN, of Auburn, in the county of De Kalb and State of Indiana, have invented certain new and useful
5 Improvements in Hoisting Devices; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being
10 had to the accompanying drawings, which form part of this specification.

My invention relates to hoisting devices, and more particularly to that class used for hoisting eaves-troughs, long timbers, and the like.

15 In the drawings, Figure 1 shows my device as adapted for use by one person. Fig. 2 is the same as adapted for use by more than one person. Figs. 3 and 4 show my device in use as a single and double tackle.

20 In the said drawings, A is a frame or vise provided with arms A', said arms having screw-bolts A² passing through their upper ends, for clamping or fastening the frame in the desired position.

25 The opposite end of the frame A is made with cheeks A³, and may be used as a means of support for the tackle-block B, as shown in Figs. 1 and 2, or as a shell when in use as a single or double block, as shown in Figs. 3
30 and 4.

B is a tackle-block, the upper end, B', of which is made to fit and move loosely between cheeks A³, being secured therein by a pintle, B². C is a strap secured to block B in such a
35 manner as to allow the block to swing loosely within it, said strap being used as a means of support for the block B when in use, as shown in Fig. 2.

40 C' and C² (see Figs. 2 and 3) are pulleys or sheaves. D, Fig. 4, is a cross-bar, used as a means of support for frame A when in use as a common tackle.

The operation of my device is as follows: I first fasten the frame or vise to the eave of the
45 roof at or near the place one end of the eave-trough is to occupy. I then fasten the end B' of block B between the cheeks A³ by means of the pintle B² in such a manner as to allow block B to swing freely in a horizontal direc-

tion. One end of the rope or line is then passed 50 over the pulley C' and made fast to the end of the eave trough or beam. I now take the loose end of the rope or line and proceed to the opposite end of the trough or beam, and ascend, by means a ladder, to the roof, carry- 55 ing with me the loose end of the rope and also the free end of the trough or beam.

It will be seen that as I ascend the ladder the tension of the rope will tend to pull the face of the block around toward me, thus ena- 60 bling me to hoist the end of the eave trough or beam by means of the line and block without liability of the line or rope slipping off of the sheave C' and binding between it and the cheek, as it otherwise would do were the block 65 B fastened rigidly to the eave or frame A.

As shown in Fig. 2, my device is better adapted for use by two or more persons; and it will be seen that, instead of securing the end B' of block B between cheeks A³, I use the 70 strap C, fastening it by means of the pintle B² to frame A, thereby allowing the said block to face in any direction and at the same time swing loosely within said strap.

In Fig. 3 I show the manner of fastening my 75 device to a beam or rafter when it is desired to use it as a double tackle. It will be seen that this obviates the necessity of boring holes through the floor or roof.

Fig. 4 shows still another manner of con- 80 structing my device when it is desired to use it in connection with a derrick or the like.

Frame A may be provided with a swivel-joint, as shown in Fig. 5 of the drawings.

What I claim is—

85 The combination, with the frame A A', of the block B B', one end of which is so constructed as to fit loosely within cheeks A³, and revolving freely around pintle B² of strap C, substantially as and for the purpose shown. 90

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

BENEDICT GOODMAN.

Witnesses:

WILLIAM MCINTYRE,
DAVID S. OBER.