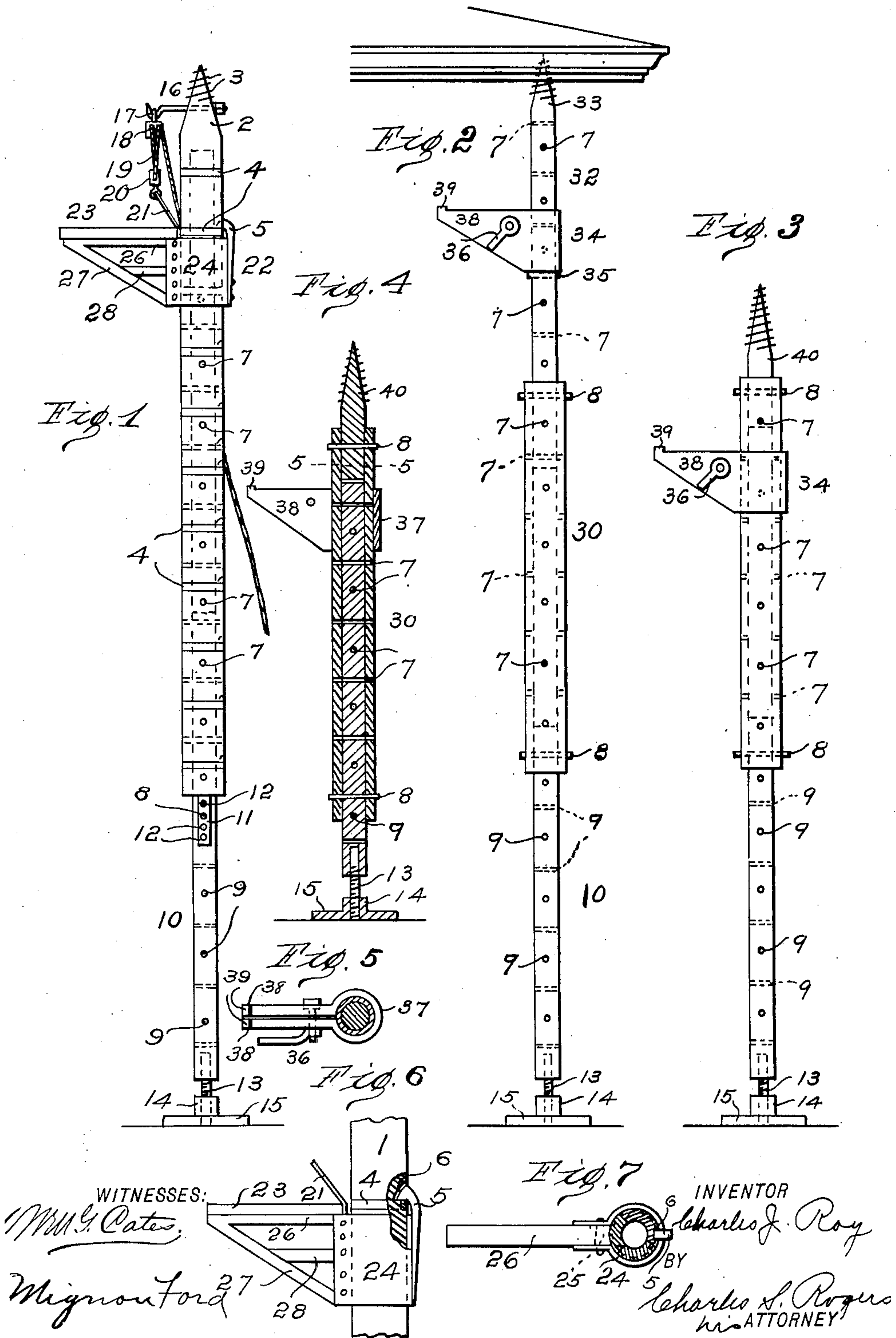


No. 786,054.

PATENTED MAR. 28, 1905.

C. J. ROY.  
SCAFFOLD.

APPLICATION FILED DEC. 14, 1903.





## UNITED STATES PATENT OFFICE.

CHARLES J. ROY, OF PASADENA, CALIFORNIA.

## SCAFFOLD.

SPECIFICATION forming part of Letters Patent No. 786,054, dated March 28, 1905.

Application filed December 14, 1903. Serial No. 185,146.

*To all whom it may concern:*

Be it known that I, CHARLES J. ROY, a citizen of the United States, residing at Pasadena, in the county of Los Angeles and State of California, have invented certain new and useful Improvements in Scaffolds; 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 appertains to make and use the same.

This invention relates to improvements in scaffolds, and particularly to those intended for use by painters and for similar purposes; and some of the objects of this invention are to provide a device of this character which will be simple and cheap in construction, while being efficient for the purposes intended.

Another object of the invention is to provide a scaffold embodying but few parts and one that is capable of use with either low or high buildings and which can be readily transported.

A further object of the invention is to provide a scaffold constructed to be extended or retracted and having an adjustably-mounted bracket or support for the user.

With these and other objects in view the invention consists, essentially, in the construction, combination, and arrangement of parts, substantially as more fully described in the following specification and as illustrated in the accompanying drawings, forming part of this application, in which—

Figure 1 is a side elevational view of one member of the scaffold, showing the bracket and the timber supported thereby in an elevated position. Fig. 2 is a similar view of a modified form of construction wherein the bracket is clamped upon the member of the scaffold. Fig. 3 is a view similar to Fig. 2, illustrating still another modification of the construction therein illustrated. Fig. 4 is a longitudinal central sectional view of the construction illustrated in Fig. 3, showing the parts retracted or in the opposite position to that illustrated in Fig. 3. Fig. 5 is a transverse sectional view taken on line 5 5 of Fig. 4, and Figs. 6 and 7 are detail views illustrating the construction of the bracket shown in Fig. 1 of the drawings.

Similar characters of reference designate corresponding parts throughout the several views.

Referring to the drawings, and particularly to the construction illustrated in Figs. 1, 6, and 7 thereof, there is illustrated one member of the scaffold, which preferably consists of an exterior portion 1, desirably tapered or conical at one end, as shown at 2, and the point or extremity may be provided with screw-threads 3 to enter the cornice or overhanging portion of the building to secure the portion 1 in position, substantially as hereinafter more fully explained. The portion 1 may be provided with encircling bands or hoops 4, which may perform the function of retaining the parts of said portion together when the latter is constructed of a plurality of segmental or semicylindrical sections, as may be done if found desirable in practice, and of receiving the hook or latch 5, as subsequently explained in detail, and the portion 1 is preferably cut away in one or more longitudinal planes or lines above each of the bands or hoops 4, substantially as shown at 6, Fig. 6, to permit the entrance of the hook or latch 5 above said bands to facilitate engagement between said parts where the latch 5 is rotated into alinement with the cut-away portions or recesses 6, as will be readily understood. The member 1 may be also provided with openings or apertures 7 to admit of the passage of a pin or bolt 8, which also passes through similar holes or openings 9 in the interior or internal portion 10 of the scaffold, by means of which said parts may be retained in the desired relative position, and if it is desired to secure extreme accuracy in its adjustment or relation between the exterior portion 1 and the interior portion 10 the former may be provided at one end with parallel projecting plates 11, constructed with apertures or openings to receive the pin or bolt 8, which may pass therethrough and through the openings 9 in the interior portion 10, and by reason of the proximity of the openings 12 in the plates 11 very accurate adjustment can be had or effected between the exterior and interior portions 1 and 10. Formed on or connected with one end of the



interior portion 10 is a threaded extension 13, constructed to enter a threaded socket 14 of a base or stand 15 of any preferred construction, adapted to rest upon the ground or other surface beneath the eaves or overhanging portion of the house to be painted. By means of this construction the member of the scaffold can be placed beneath the eaves or cornice of a house, and the threaded conical end 3 of the exterior member 1 can be screwed into such cornice by rotating the exterior member 1, and such rotation will likewise turn the interior member 10 in the base or stand 15 when said portions shall have been secured in position. The other member or element of the scaffold may be similarly secured in a proper position, it being understood that before so securing the said parts or elements of the scaffold the exterior and interior members 1 and 10 are first adjusted approximately to the length desired by means of the openings 7 and 9 and a bolt or pin 8, as before explained.

Formed on or connected with the conical end 2 of the exterior member 1 is a hook or hanger 16 of any construction adapted to receive the eye 17 of a block or tackle 18, with which is connected a rope or cable 19, passing through another block, 20, connected by a plate or link 21 with a sliding bracket 22, carrying the latch or hook 5, by means of which said bracket may be supported in any desired position by the engagement of said hook with one of the bands 4 when the hook shall have been rotated into longitudinal alinement with said recesses 6 in the exterior portion 1, and said bracket may support one end of a plank or timber 23, substantially as illustrated in Figs. 1 and 6 of the drawings.

The construction of the bracket 22 is preferably of a semicylindrical sleeve or portion 24, the extremities of which may be bolted or riveted to a block or strip 25, (shown in dotted lines in Fig. 7,) and to said block may be secured a horizontal piece 26, the outer end whereof is preferably supported by an inclined brace 27, connected with the piece 26 and with the portion or strip 25, and an intermediate brace 28 may be employed, if found desirable in practice.

After the parts or elements of the scaffold shall have been secured in position as before explained the timber or board 23 can be placed upon the two brackets 22 and the end of the rope or cable 19 can be drawn down, thereby raising the bracket 22 to the desired height, where it will be automatically retained in position by the spring action of the hook or latch 25 entering one of the recesses 6 and engaging the preceding band 4 on the portion 1, provided the bracket 22 shall have been so raised in longitudinal alinement with said recesses 6, substantially as shown in Figs. 1 and 6 of the drawings; but if said bracket 22 shall have been raised in such manner that the hook 5 thereof was out of alinement with

the recesses 6, then the aforesaid automatic entrance of said hook into said recesses will be prevented, and said bracket can then be raised and lowered uninterruptedly until said bracket shall have been rotated into such alinement.

Referring now to the construction illustrated in Fig. 2 of the drawings, there is shown a cylinder or sleeve 30, provided with transverse openings 7, which may be arranged at right angles to each other, and slidably mounted within one end of the sleeve 30 is an interior portion 10, preferably provided with similar openings 4, through which and the openings in the sleeve 30 can be passed a bolt or pin 8, by means of which construction the portion 10 can be retained in any desired position in relation to the sleeve 30, as will be readily understood. Rigidly secured in or formed upon the exterior end of the bar or rod 10 is a screw-threaded extension 13, constructed to enter a screw-threaded socket 14 of a base or plate 15, as before explained, and adjustably secured in the other end of the sleeve 30 is a bar or rod 32, likewise provided with openings 7 to receive a bolt or pin 8, whereby the sleeve 30 and the bar or rod 32 may be secured in any desired relation or position to each other, and said bar 32 is preferably provided with a conical threaded extremity 33, constructed to be screwed into a cornice or the overhanging portion of the building adjacent to which the scaffold is to be erected. A bracket 34 is slidably mounted upon the bar or rod 32 and may be held in any suitable position thereon by means of a bolt or pin 35, secured in one of the openings 7 in said bar, substantially as illustrated in Fig. 2 of the drawings; but it will be understood that the bracket may be placed upon the sleeve 30 and secured thereon in the same manner as upon the rod 32, as shown in Figs. 3 and 4 of the drawings, this being effected by releasing the clamp or cam device 36 and opening or separating the ends of the bracket, as will be readily understood by those skilled in the art to which this invention appertains.

Referring now particularly to the construction illustrated in Fig. 5 of the drawings, the construction of the bracket shown in Figs. 2 to 5 is illustrated in detail, and consists, preferably, of a single piece of metal bent intermediate of its length to form a semicylindrical portion 37, from which the ends 38 extend at right angles and parallel to each other and are removably retained together by a clamping device or cam 36 of any preferred construction, while the extremity of the ends 38 is preferably deflected laterally to form a retaining projection or shoulder 39 for the purpose of preventing the accidental disengagement of the timber or plank 23 which may be placed upon the bracket during the operation of painting or during the use of the scaffold.



Adverting now to the construction illustrated in Figs. 3 and 4 of the drawings, there is shown an element or member of a scaffold similar to that described in connection with Fig. 2, with the exception that the length of the bar or rod 32 is shortened, or there is substituted in place thereof a short plug or cap 40, having a screw-threaded conical extension designed to serve the same function or purpose as the bar or rod 32 when it is desired to use the scaffold in connection with a low building or for purposes involving a very slight elevation, and in Fig. 3 the element or member of the scaffold is shown extended to its extreme length, while in Fig. 4 it is reduced or retracted to the utmost.

The operation of this invention will be readily understood from the foregoing description when taken in connection with the accompanying drawings, and further explanation thereof will not be required.

This invention is not limited to the specific construction, combination, and arrangement of parts herein shown and described, and the right is reserved to make all such changes in and modifications of the same as come within the spirit and scope of the invention.

I claim—

1. A scaffold provided with an exterior portion constructed of a plurality of sections, rings or bands thereon to secure said sections together and to receive a latch, a bracket movable on said portion carrying a latch constructed to automatically engage said bands successively as said bracket is elevated and an interior portion engaging said exterior portion.

2. A scaffold provided with an exterior portion constructed of a plurality of sections, rings or bands on said portion adapted to retain said sections together and to receive and support a latch, a bracket encircling said portion and carrying a spring-latch constructed to engage said bands successively as said bracket is progressed, an interior portion adjustable within said exterior portion and means for effecting such adjustment.

3. A scaffold provided with adjustable members, one whereof is constructed of sections, rings or bands on one of said members, constructed to secure the sections together and to receive a latch, a bracket, a latch carried by said bracket and adapted to engage said rings or bands automatically and means for raising and lowering the bracket.

4. A scaffold provided with bands or rings,

a bracket carrying a latch constructed to automatically engage said bands, means for operating the bracket, whereby the latch can be disengaged and prevented from accidental re-engagement by the rotation of the bracket.

5. A scaffold provided with an exterior portion having recesses in the same longitudinal plane, supporting devices below said recesses, a support carrying an engaging portion constructed to enter said recesses and engage said devices successively and to be moved out of the plane of said recesses to prevent accidental reengagement whereby said support may be lowered from below and an interior portion.

6. A scaffold provided with an exterior portion having openings, a bar or rod having openings and provided with a threaded end and constructed to enter said portion, an interior portion carrying a threaded projection and having openings and being adapted to enter said exterior portion, pins or bolts to pass through said portions and bar, to retain said parts in the desired position and means on the scaffold to support the operator or user.

7. A scaffold provided with an exterior portion having openings, a bar or rod constructed to enter said portion and having openings and a threaded end, an interior portion constructed to enter said exterior portion and having openings and a threaded projection, pins or bolts adapted to pass through said parts to retain the same in the desired relative position and an adjustable bracket upon the scaffold.

8. A scaffold provided with an exterior portion having openings, a bar having openings and a threaded end and constructed to enter said portion, an interior portion constructed to enter said exterior portion and having openings and a threaded end, devices to enter said openings to retain said parts in the desired relative position, a bracket slidably mounted on said scaffold and a threaded socket or base upon said projection, whereby the scaffold may be extended after adjustment and secured into the building.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, at Pasadena, county of Los Angeles, State of California, this 2d day of December, 1903.

CHARLES J. ROY.

Witnesses:

CHARLES S. ROGERS,  
MIGNON FORD.