A. MAZZANOVICH.

COMBINATION CLAMP.

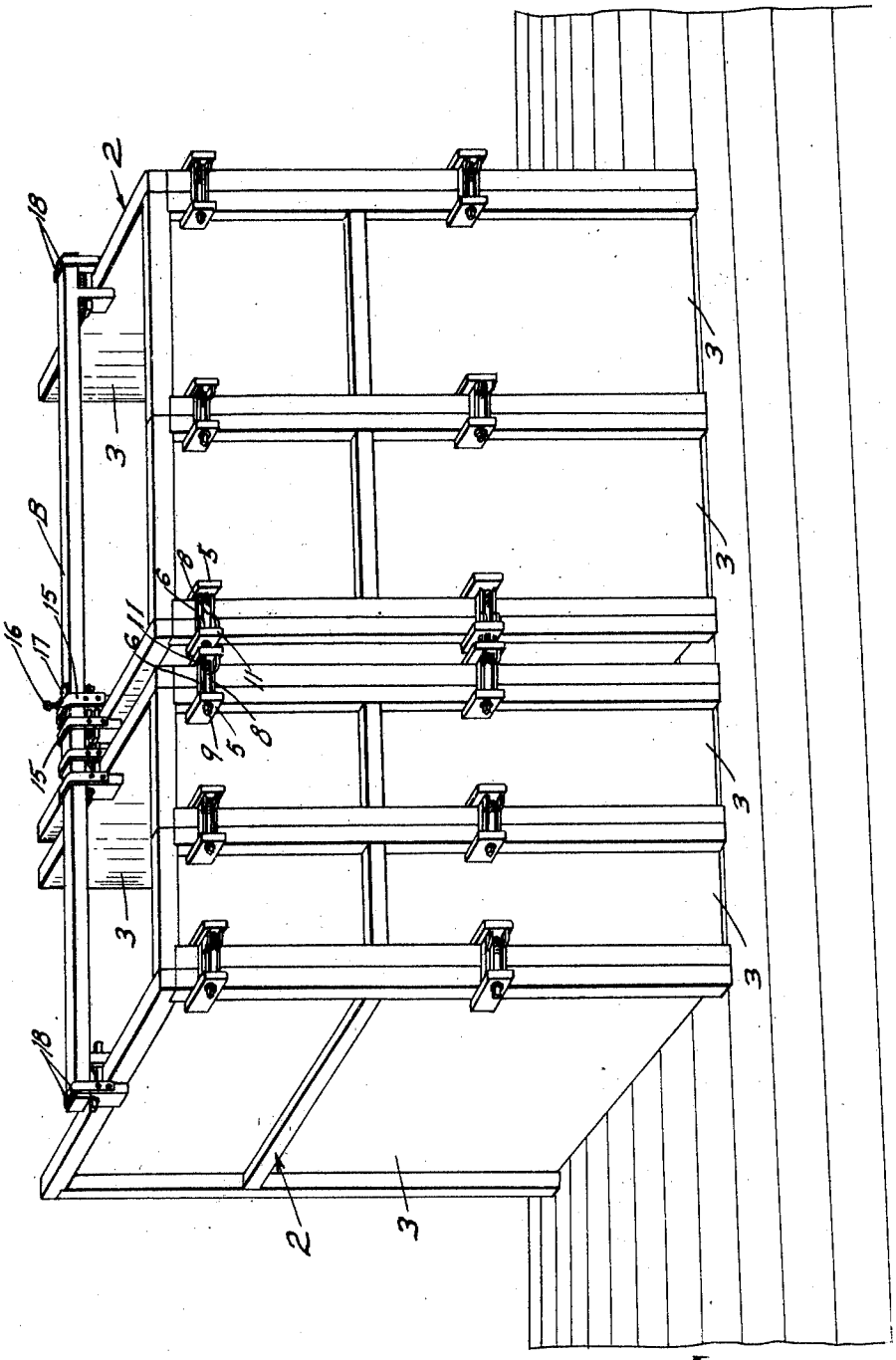
APPLICATION FILED DEC. 11, 1919.

1,367,071.

Patented Feb. 1, 1921.

2 SHEETS—SHEET 1.

FIG. 1.



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2 SHEETS—SHEET 2.

FIG. 3.

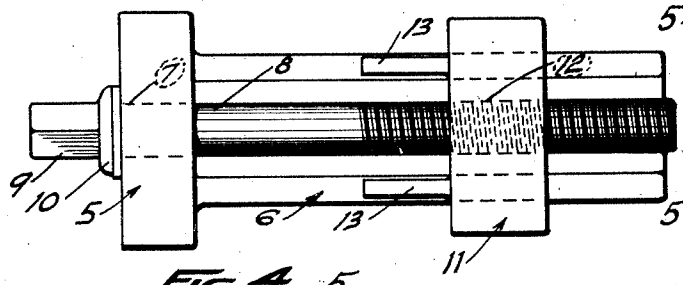


FIG. 5.

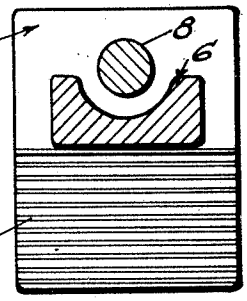


FIG. 4.

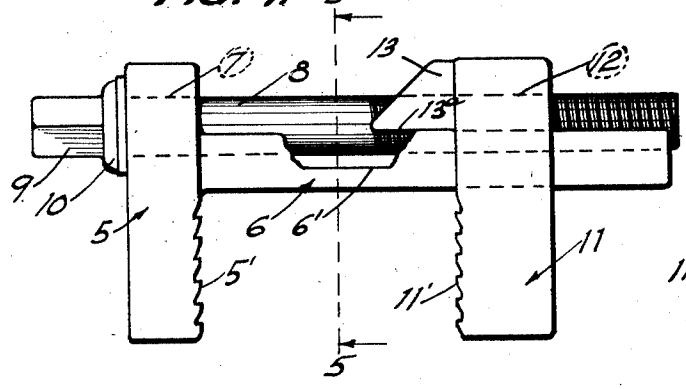


FIG. 6.

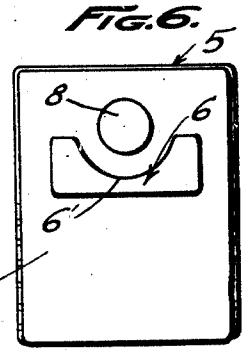


FIG. 2.

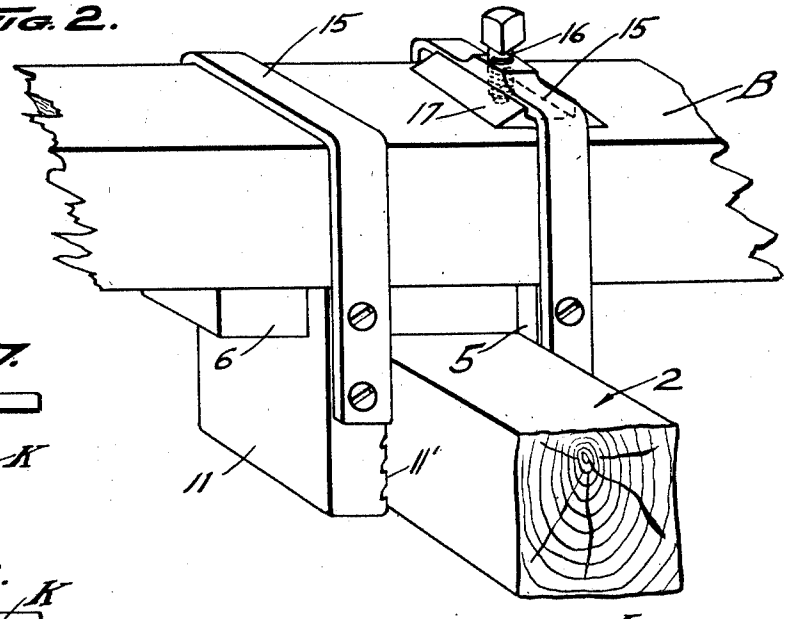


FIG. 7.

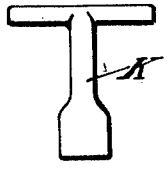
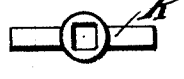


FIG. 8.



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UNITED STATES PATENT OFFICE.

ANTON MAZZANOVICH, OF LOS ANGELES, CALIFORNIA.

COMBINATION-CLAMP.

1,367,071. Specification of Letters Patent. Patented Feb. 1, 1921.

Application filed December 11, 1919. Serial No. 344,164.

To all whom it may concern:

Be it known that I, ANTON MAZZANOVICH, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented new and useful Improvements in Combination-Clamps, of which the following is a specification.

This invention relates to stage paraphernalia and more particularly to means for setting up and holding "flats" or frame structures with surfaces decorated to provide scenery, and an object of the present invention is to provide means that is reusable and by which so-called scene flats can be quickly erected and substantially held in erected position and readily removed to be used again, and has further for an object to provide an economy in the erection and knocking down of the scenes which under the present practice is expensive because of the permanent injury to the scene frames and props. The invention consists of the construction and details an embodiment of which is illustrated in the accompanying drawings and described and claimed herein.

Figure 1 is a perspective of the rear of a side of flats, erected to form a background, showing the applied invention.

Fig. 2 is a perspective of one of the devices and in approximately full size.

Fig. 3 is a plan view of one of the clamps.

Fig. 4 is a side elevation of the device shown in Fig. 3.

Fig. 5 is a transverse section on line 5—5 of Fig. 4.

Fig. 6 is an end view of Fig. 4.

Figs. 7 and 8 are plan and end views of an adjusting tool.

In the erection of scenery suitable sections commonly termed "flats" are employed, these flats consisting of a suitable framework 2 over one or both main planes of which is applied a sheet of suitable material 3 on the outer face of which there is painted or otherwise provided the scenery forming matter. A series of these flats 2 are erected in various relations especially in the taking of motion pictures, and the present invention is designed to be used to hold the flats in assembled relation.

The holding device hereinafter termed the clamp comprises a jaw member 5 from which perpendicularly projects at one side a shank or stem 6 one face of the jaw 5 disposed beneath the shank 6 being preferably notched or toothed as at 5′ for effective gripping purposes, and the other end of the jaw 5 extending beyond the shank 6 is provided with an aperture 7 to take the stem of the fastening bolt or screw 8 having a polygonal head 9 at its outer end with a shoulder 10 adapted to bear against the adjacent transverse face of the head or jaw 5. The bolt or screw 8 extends parallel to the shank or body 6 and this latter may be longitudinally grooved or channeled as at 6′ to receive the body of the bolt.

There is slidably mounted on the shank 6 another block 11 of oblong form having a toothed face 11′, in opposition to the toothed face 5′ and the sliding jaw 11 is provided with an aperture 12 threaded to receive the threaded end of the fastening bolt 8 so that when the opposed engaging jaws 5′—11′ are applied to surfaces of two abutted frame members, as clearly shown in Fig. 1 and the screw 8 turned to draw the jaws together the latter firmly clench on the inserted parallel members of the frame and hold the same in place. To facilitate the sliding movement and prevent binding of the sliding jaw 11 on the shank 6 one face of the jaw 11 may be provided with a pair of inwardly extending runners or lugs 13 with faces 13ª sliding along the adjacent upper edges of the channeled shank 6.

In Fig. 2 there is shown a set of the clamp jaws 11 and 5 disposed on opposite sides of a top transverse member of a frame 2, and these jaws 11—5 are provided with upwardly extending bows or stirrup-like members 15 designed to straddle over a horizontal and longitudinal extending truss beam or brace B, Figs. 1 and 2, upon which there may be mounted a suitable number of the clamps so that the top components of each of the flats 2 may be embraced by a respective clamp so that the brace member may be extended longitudinally along the top of the set and the wings held in proper relation by adjustment of the clamps along the brace B.

One of the clamps has its stirrup or bow member 15 provided with a set screw 16 by which a shoe or wedge block 17 which interengages beneath the top of the bow can be firmly locked to set the clamp at any desired position on the brace member B.

If desired, and preferably, certain of the bow members 15 of some of the clamps are rigidly connected at given positions on the

brace B by screws or other suitable fastening means 18. Any suitable key as K can be applied to the screw 9.

It is understood that while both members of a clamp that is to be used on the top members of a frame or set up may either each have an over straddling bow or either one or the other of them only may have the bow.

Various changes may be made without departing from the spirit of my invention as claimed.

I claim:

1. A stage flat clamp including a main jaw, a shank integral with and perpendicular to said jaw, said jaw being provided with an opening, a draw bolt extended through said opening, a head on said draw bolt engaging the outside of said main jaw, a sliding jaw provided with an opening through which said shank extends and with a threaded opening through which said bolt extends in threaded engagement with the opening, and runners on the inside of said sliding jaw engaging said shank.

2. A stage "flat" clamp comprising a main jaw member having a perpendicular shank at one side, a sliding jaw on the shank, and a draw bolt with a head at one side of the main jaw and its stem extending through the jaw and engaging the other jaw, the head and the slide having bows to be passed on an inserted brace part.

3. A stage "flat" clamp comprising a main jaw member having a perpendicular shank at one side, a sliding jaw on the shank, a draw bolt with a head at one side of the main jaw and its stem extending through the jaw and engaging the other jaw, the head and the slide having bows to be passed on an inserted brace part, and means on one of the bows for adjustably setting it at any position on the brace.

In testimony whereof I have signed my name to this specification.

ANTON MAZZANOVICH.