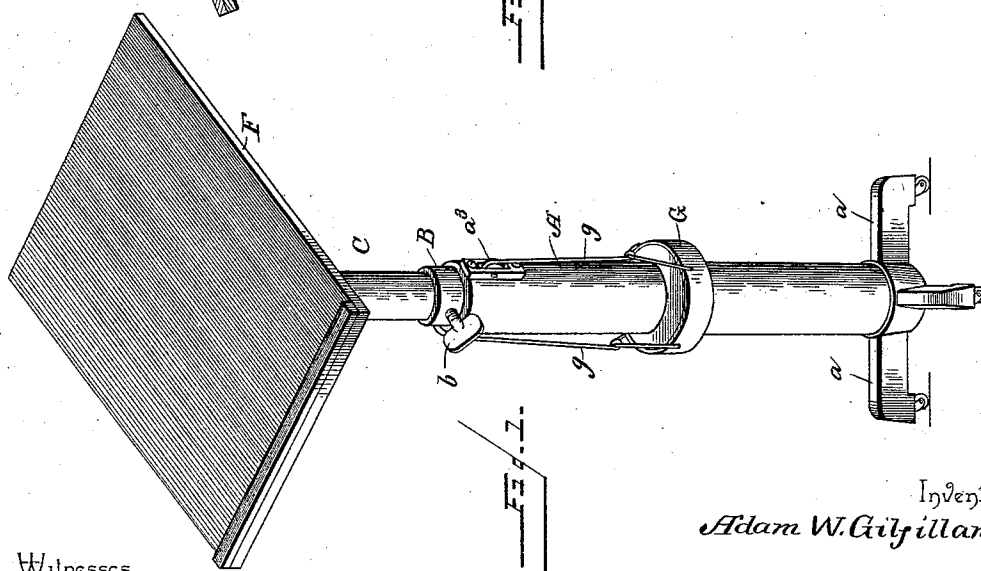
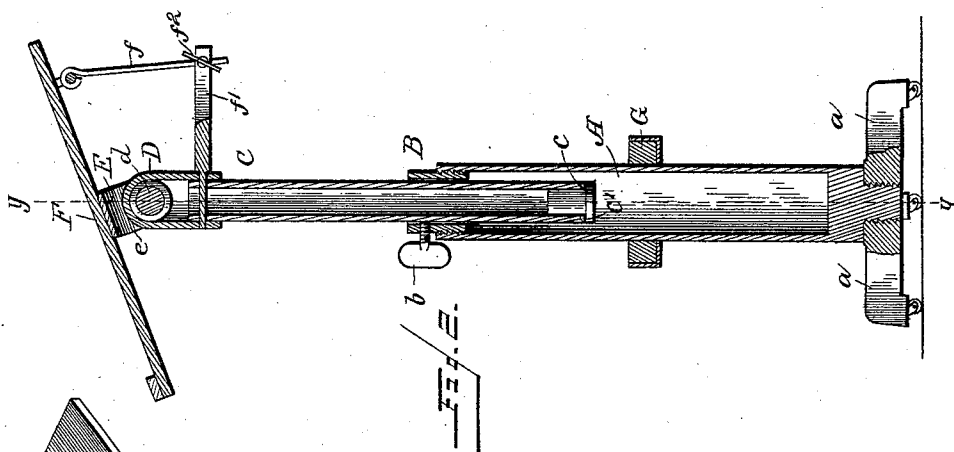
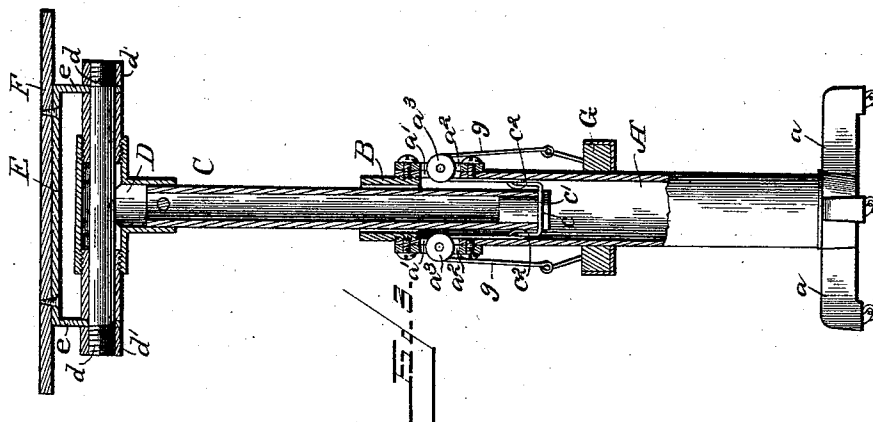


(No Model.)

A. W. GILFILLAN.
CAMERA STAND.

No. 540,434.

Patented June 4, 1895.



Inventor
Adam W. Gilfillan.

By his Attorneys.

Witnesses
J. W. Riley
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UNITED STATES PATENT OFFICE.

ADAM WILLIAM GILFILLAN, OF FERNDALE, CALIFORNIA.

CAMERA-STAND.

SPECIFICATION forming part of Letters Patent No. 540,434, dated June 4, 1895.

Application filed February 19, 1895. Serial No. 538,999. (No model.)

To all whom it may concern:

Be it known that I, ADAM WILLIAM GILFILLAN, a citizen of the United States, residing at Ferndale, in the county of Humboldt and State of California, have invented a new and useful Camera-Stand, of which the following is a specification.

My invention relates to improvements in that class of camera-stands in which weights are used to properly balance the table, supporting a camera, when the same is being adjusted vertically; and the object of my improvement is to provide a weight and so arrange the same that it will always move in a vertical plane when the table is being adjusted up or down. I attain this object by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 represents a perspective view of a camera-stand with my improvements applied thereto. Fig. 2 represents a vertical section of the stand. Fig. 3 represents a vertical section on the line *y y*, Fig. 2.

Similar letters refer to similar parts.

A is a hollow cylinder, provided with feet *a* at its lower end. Near the upper end are two slots *a' a'*, substantially opposite each other, and over these slots are fastened two slotted plates *a² a²*, the slots in the plates registering with those in the cylinder. In the slots of the plates are journaled two grooved pulleys *a³ a³*. The upper end of the cylinder is internally screw-threaded for the purpose of receiving the externally screw-threaded collar B, provided with the set-screw *b*.

C is the standard that is vertically adjustable in the cylinder A, and is held at any desired height by means of the set-screw *b*. The lower end of the standard is upset or plugged thereby forming a flange that extends out beyond the periphery of the standard. In the periphery of the standard, adjacent to the flange, is formed a groove or channel *c*, and in this groove is loosely mounted a collar *c'*, provided with upwardly-extending perforated flanges *c² c²*. The upper end of the standard is provided with a hollow T-head D, and in this hollow head is loosely mounted a rod *d*, provided with screw-threaded ends on which fit the nuts *d' d'*.

E is a yoke, provided with downwardly-projecting perforated ends *e e*. This yoke is

rigidly mounted on the rod *d*, in order to turn therewith, and is held in place by means of the nuts *d' d'*. To the upper side of the yoke is attached the table F, upon which the camera rests. From the under side of the upper end of the table projects a rod *f*, that extends down through a perforation in the outer end of an arm *f'*, extending out at a right angle to the T-head.

f² is a set-screw located in the side of the outer end of the arm *f'*, and engages the rod *f*.

G is a weighted collar, that loosely encircles the cylinder A, and to this collar is attached one end of each of the cords, wires, chains or the like *g g*. The cords are then passed up over the pulleys *a³ a³*, down on the inside of the cylinder and the other ends of the cords are attached to the flanges *c² c²* of the collar *c'*.

It is obvious that minor changes may be made in the construction of my device without departing from the spirit of my invention; such, for example, as enlarging or making the upper end of the cylinder A thicker, thereby permitting the grooved pulleys *a³ a³* to be journaled directly in the slots *a' a'*, instead of in the plates *a² a²*, thus dispensing with these plates.

In case it is desirable or found necessary, by reason of the weight of the camera, additional weights may be added and removed without affecting my construction.

The operation of my device will be obvious to any one skilled in the art. When it is desired to adjust the camera to the proper height, or to revolve the same either to the right or left, it is only necessary to release the set-screw *b*, which will permit the standard C to be turned or raised and held at any desired height by the weight, and by reason of the collar *c'*, to which the weight is attached, being loosely mounted on the standard the latter can turn without turning the collar; and by reason of the weight encircling the cylinder, it is guided thereby in its vertical movement and prevented from wobbling. In order to adjust the camera to any desired angle, it is only necessary to loosen the set-screw *f²* and the nuts *d' d'*.

Having described the invention, I claim—

1. In a camera stand, the combination with the hollow cylinder provided with feet at its lower end, of a vertically-adjustable and rev-

oluble standard mounted in the cylinder and provided at its upper end with a hollow T-head in which is loosely journaled a rod provided with nuts on its ends, and a yoke mounted on the rod and carrying a table, an arm projecting at a right angle from the T-head and provided with a set-screw, and a rod extending down from the under side of the table and through the arm, all substantially as described and shown.

2. In a camera stand, the combination with the stand, of a weighted collar surrounding the upright support and vertically adjustable thereon, the vertically-adjustable standard, and means for attaching the weight to the standard, substantially as described.

3. In a camera stand, the combination with the stand, of a weighted collar surrounding the upright support and vertically adjustable thereon, the vertically-adjustable standard, and means for attaching the weight to the standard, consisting of cords or wires fastened at one end to the weight and extended up over pulleys in the upright, the other ends being attached to a collar on the lower end of the vertically-adjustable standard, substantially as described and shown.

4. In a camera stand, the combination with the hollow cylinder provided with feet at its

lower end, and grooved pulleys at its upper end and internally screw-threaded at its upper end, and an externally screw-threaded collar carrying a set-screw held in the upper end, of a vertically-adjustable standard provided with a flanged head at its lower end, and a peripheral channel near the head, a collar loosely mounted in the channel and provided with upwardly-extending perforated lugs, a hollow T-head at the upper end of the standard, a rod loosely journaled in the hollow head and provided with removable nuts on its ends, a yoke mounted on the rod and carrying a table, an arm extending at a right angle to the T-head in which is adjustably mounted a rod extending from the table, and a vertically-adjustable weighted collar surrounding the upright support, and cords attached to the weight and collar on the lower end of the vertically-adjustable standard, substantially as described and shown.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

ADAM WILLIAM GILFILLAN.

Witnesses:

C. A. MINER,
J. H. FROST.