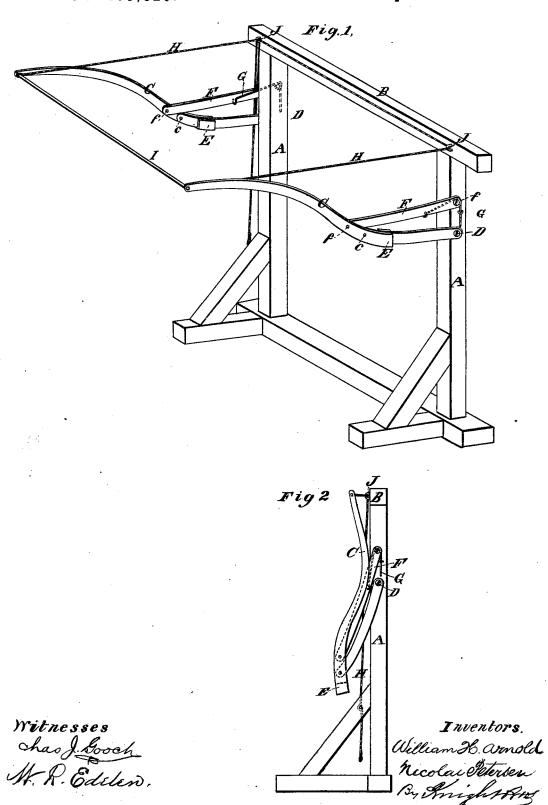
W. H. ARNOLD & N. PETERSEN. FRAMES FOR SUPPORTING MOSQUITO-NETS.

No. 195,323.

Patented Sept. 18, 1377.



UNITED STATES PATENT OFFICE.

WILLIAM H. ARNOLD AND NICOLAI PETERSEN, OF MEMPHIS, TENNESSEE.

IMPROVEMENT IN FRAMES FOR SUPPORTING MOSQUITO-NETS.

Specification forming part of Letters Patent No. 195,323, dated September 18, 1877; application filed August 15, 1877.

To all whom it may concern:

Be it known that we, WM. HENRY ARNOLD and NICOLAI PETERSEN, of Memphis, in the county of Shelby and State of Tennessee, have invented a new and Improved Automatic Extension-Frame for Awnings and Mosquito-Bars, of which the following is a specification:

Our invention relates to a self-adjusting frame for awnings, mosquito-bars, and other canopies, the said frame being constructed after the manner of the human arm, and operated by a spring, which extends it automatically, and one or more cords, by which it is retracted.

In the accompanying drawing, Figure 1 is a perspective view of the frame in its extended condition. Fig. 2 is a side elevation of the same in its contracted position.

The standards A A and cross-piece B may represent the frame of a window or bed, or any structure to which the automatic extension-frame is to be applied. The said extension-frame consists of a pair of arms, C C, jointed at e, and pivoted at D to the stationary frame. The outer member of each arm is formed with an extension, E, at the elbow, adapted to engage beneath the inner member when the arms are extended, as illustrated in Fig. 1, so as to strengthen the frame. F F are bracing-arms, pivoted at f to the stationary frame, and to the extension-arms, respectively, so as to support the said arms rigidly

when they are extended. G G are springs fixed to the stationary frame, and bearing under the braces F F, so as to press the same up, and thereby throw the frame outward to its extended position. H H are cords attached to the extremities of the arms C, or to a cross-bar, I, by which their ends are connected and passing through eyes J J, in such position that by pulling on said cords the frame is drawn into the contracted position shown in Fig 2. As soon as the cords are released the springs G throw the frame outward to its extended position, thereby expanding the awning or mosquito-bar, or other canopy which the frame may be employed to support.

Having thus described our invention, the following is what we claim as new and desire to secure by Letters Patent:

1. The frame for awnings, mosquito-bars, or other canopies, constructed with two or more jointed arms, supported by hinged braces F F and extended elbows E, in the manner described.

2. The combination of the jointed arms C, braces F, springs G, and cords H, substantially as and for the purpose set forth.

W. H. ARNOLD. N. PETERSEN.

Witnesses:

JAMES B. COOK, H. F. SCHULZE.