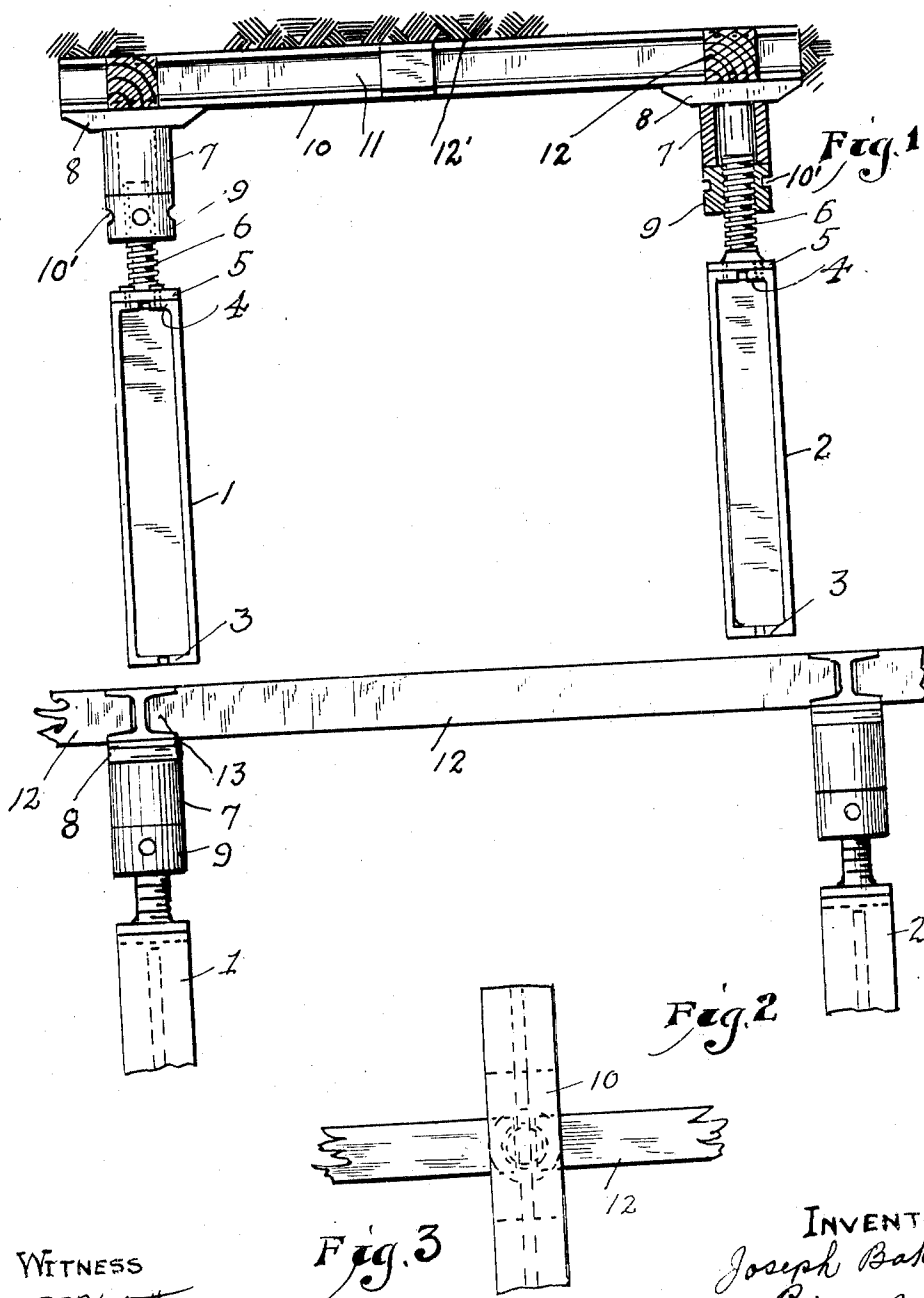


J. BAKOVICH,  
SUPPORTING DEVICE.  
APPLICATION FILED AUG. 16, 1920.

Patented Mar. 29, 1921.

1,372,990.



WITNESS  
R.F. Dilworth

Fig. 3

Fig. 2

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# UNITED STATES PATENT OFFICE.

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## SUPPORTING DEVICE.

1,372,990.

Specification of Letters Patent.

Patented Mar. 29, 1921.

Application filed August 16, 1920. Serial No. 403,874.

*To all whom it may concern:*

Be it known that I, JOSEPH BAKOVICH, a citizen of the United States, residing at Herminie, in the county of Westmoreland and State of Pennsylvania, have invented certain new and useful Improvements in Supporting Devices, of which the following is a specification.

This invention relates to supporting devices, designed primarily for use in connection with the supporting and bracing of mine roofs, but it is to be understood that the device can be employed for any purposes wherein it is found applicable, and the invention has for its object to provide, in a manner as hereinafter set forth, a supporting device having means whereby the roof supporting and bracing members can be adjusted to any height desired to provide for using the device with roofs situated at different heights, and to further provide the device, with means in a manner as hereinafter set forth, to permit of employing any desired number of combined brace and supporting members for the roof and to further enable the adjusting of said members relatively to each other.

Further objects of the invention are to provide a supporting device for the purpose referred to and in a manner as hereinafter set forth, which is simple in its construction and arrangement, strong, durable, adjustable, efficient in its use, readily set up, and comparatively inexpensive.

With the foregoing and other objects in view the invention consists of the novel construction, combination and arrangement of parts as hereinafter set forth, and illustrated in the accompanying drawings wherein is shown an embodiment of the invention, but it is to be understood that changes, variations and modifications can be resorted to which come within the scope of the claim hereunto appended.

In the drawings wherein like reference characters denote corresponding parts throughout the several views:

Figure 1, is a sectional elevation of a supporting device in accordance with this invention.

Fig. 2, is an elevation, broken away, at right angles to Fig. 1, showing the combined brace and supporting members for the roof.

Fig. 3, is a top plan broken away.

Referring to the drawings in detail 1 and 2 denote a pair of standards, each of which

is constructed of a metallic I-beam inturned at its upper and lower ends to provide a base 3 and a head 4. The web of the beam at its upper and lower ends is cutaway and the sides bent inwardly to provide the base 3 and head 4.

The number of standards employed can vary depending on the size of the roof which is to be supported, but in any event the standards are arranged in pairs and the standards of each pair positioned opposite each other, and the pairs of standards spaced from each other, the distance between the pairs of standards being that desired.

Mounted on, as well as being secured to the head 4, of each standard is an adjusting element provided to adjust the position of the combined brace and supporting members for the roof, at the desired height with respect to the height of the roof, so that the said members can be shifted to abut against the roof to brace and support the same. The adjusting element consists of a base 5, which is fixedly secured to the head 4, and is formed with a vertically disposed screw threaded stem 6, which has on its upper end a vertically shiftable supporting member formed of a sleeve 7 and an enlarged rectangular head 8, the latter being integral with the sleeve. The adjusting element further includes an adjusting collar 9, which has threaded engagement with the stem 6 and abuts against the sleeve 7 and supports the latter as well as vertically shifting it when the collar 9 is adjusted on the stem 6. Openings 10' are provided in the collar 9 to receive a suitable tool to facilitate the operating of the sleeve.

Mounted upon a pair of opposed heads 8 is a combined coupling and supporting member 10, which is in the form of a metallic I-beam and provides on each side thereof an elongated pocket or seat 11. The member 10 is arranged against the roof and shifted to such position by the adjusting elements. The roof is indicated at 12'

Extending at right angles with respect to the member 10 is a series of combined brace and supporting members 13, which preferably are formed of wood. Each of the members 12 is formed at each end with a tongue 13 extended into a seat 11, as shown in Fig. 2, and by this arrangement the members 13 are secured in position to support and brace the roof. The upper face of the members 12 are flush with the upper face of the members 10, and any desired number

of members 12 may be employed, and owing to the manner in which the members 12 are set up relatively to the members 10 they can be adjusted to any arrangement of spaced  
5 relation between the said members 12.

The adjusting elements are preferably constructed of metal.

The length of the members 12 can be as desired, but of a length to have the tongues  
10 thereof fit snugly in the seats 11.

What I claim is:—

A supporting device for the purpose set forth comprising a pair of opposed standards having the upper end thereof inturned

in opposite directions to form a head, an 15 adjusting element fixedly secured to each head and including a vertically adjustable rectangular head, a combined coupling and supporting member mounted on the pair of rectangular heads and provided with seats, 20 and combined brace and supporting members disposed at right angles to the coupling member and having the ends thereof extended into a seat whereby they are coupled to and supported by the coupling member. 25

In testimony whereof I affix my signature.

JOSEPH BAKOVICH.