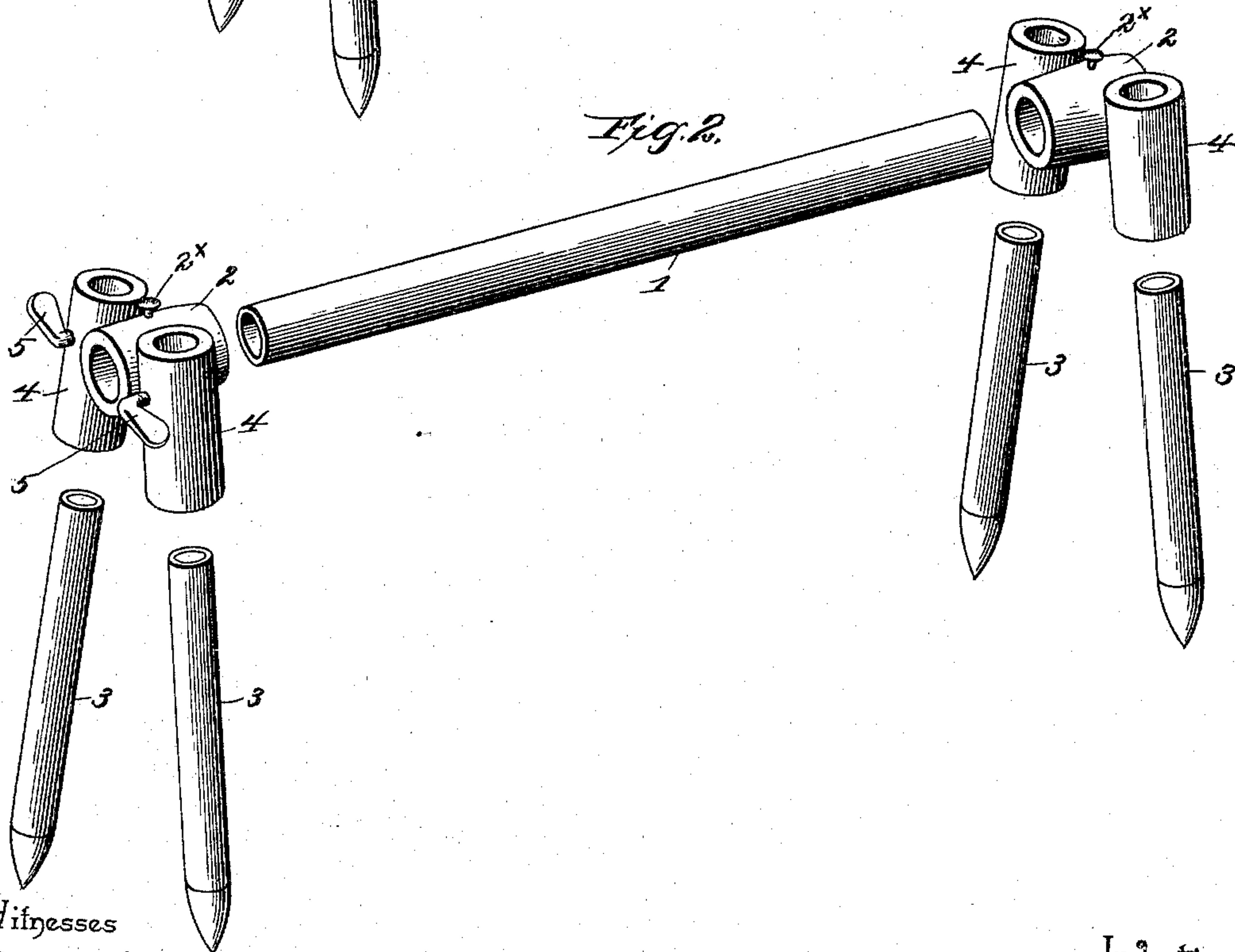
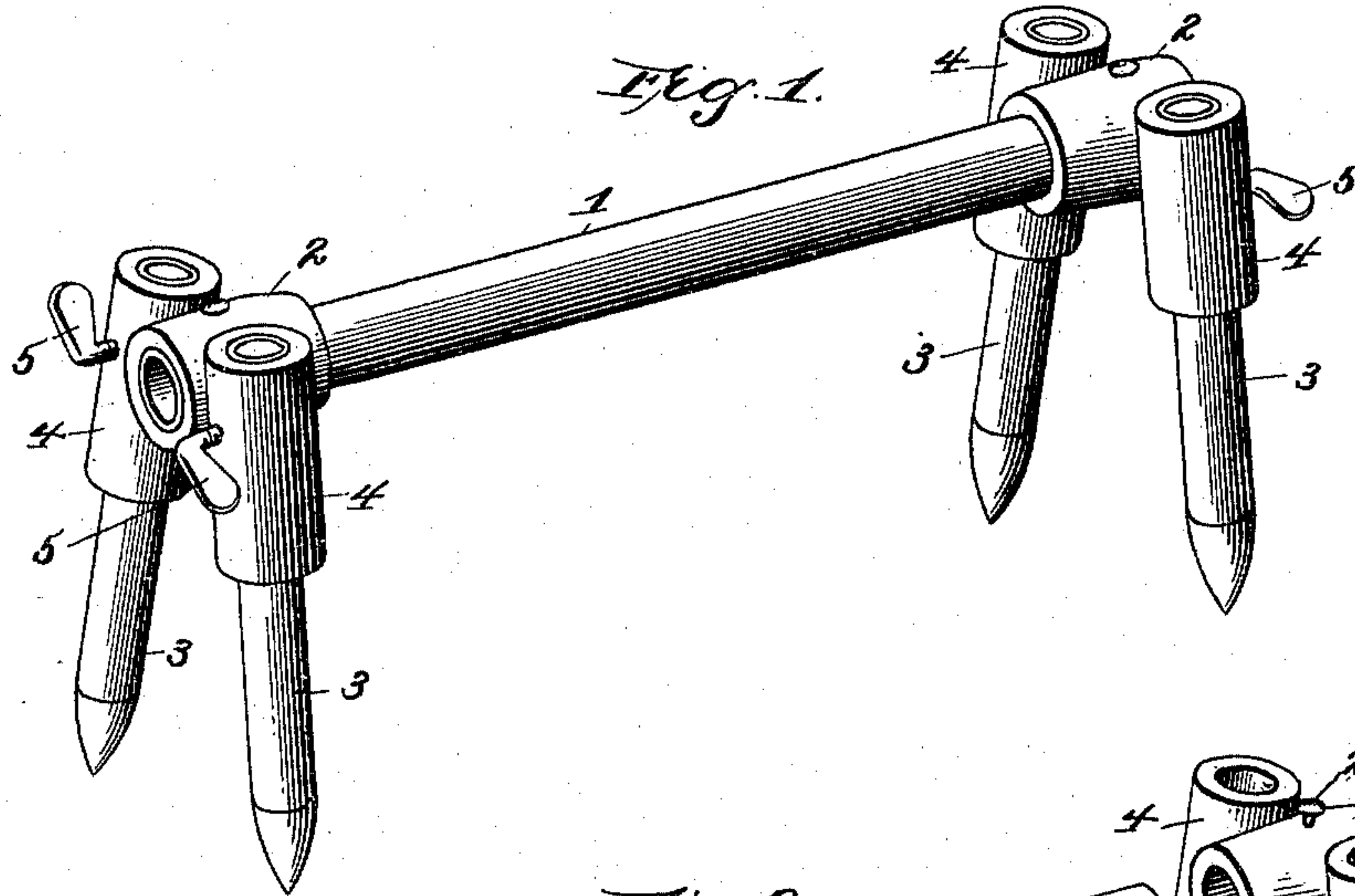


(No Model.)

L. H. BRADLEY.  
TRUSS FOR MINING MACHINES.

No. 488,349.

Patented Dec. 20, 1892.



Witnesses

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# UNITED STATES PATENT OFFICE.

LINDSAY H. BRADLEY, OF FLUSHING, OHIO.

## TRUSS FOR MINING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 488,349, dated December 20, 1892.

Application filed July 6, 1892. Serial No. 439,117. (No model.)

*To all whom it may concern:*

Be it known that I, LINDSAY H. BRADLEY, a citizen of the United States, residing at Flushing, in the county of Belmont and State of Ohio, have invented a new and useful Truss for Mining-Machines, of which the following is a specification.

This invention relates to certain new and useful improvements in trusses for mining, carpentry, or general engineering work, and has for its object to provide a device of the character set forth, which is both detachable to adapt the several parts thereof to be stored in a small space, and also adjustable vertically to regulate the height thereof for various purposes, and with this object in view the invention consists of the construction and arrangement of the parts as will be hereinafter more fully described and claimed.

In the drawings;—Figure 1 is a perspective view of the improved truss. Fig. 2 is a similar view of the device with the parts thereof disconnected.

Similar numerals of reference are employed to indicate corresponding parts in the several figures.

Referring to the drawings the numeral 1 designates a longitudinally disposed connecting bar or arm secured removably at its opposite ends in a horizontally disposed collar 2, in which it is preferably held in removably by pins 2<sup>x</sup> inserted therein, and integrally formed with said collars 2, on each side of the same are obliquely arranged collars 4, extending at an outward angle of inclination or diverging from said collars 2. The said collars 2, and 4, provide heads at opposite ends of the device and are tubular as well as the connecting bar 1, and constructed of suitable light metal and in a strong and durable manner.

Within the collars 4, are removably and adjustably secured divergent legs 3 whose lower ends are pointed to adapt the device to be held in a stable position, and said legs are held in connection with the collars by clamping screws 5, extending transversely through said collars and contacting with the said legs. By loosening the clamping screws 5, the legs may be adjusted as found necessary and desirable, either equally throughout or more on

one side than on the other, and in the latter instance an angular truss may be readily provided.

The device is especially adapted for use in connection with mining machines, such as drills which are placed upon platforms, and at times requiring an angular adjustment or the device is equally well adapted for employment in carpentry wherever trusses may be used, and for this use the device is exceptionally convenient as it can be readily taken apart and stored in a tool chest.

The size of the device will be made regulable in accordance with the intended use, and being preferably formed of pipe sections it can be easily and cheaply manufactured.

The removability of the several parts of the device makes it convenient in transporting the same to and from a mine and through shafts and openings of small dimensions, and is of such form that it can be readily set up in operative position or taken apart to be stored. The use of nuts and bolts is dispensed with for the reason that it is not presumed that a miner will have in his possession a lot of tools with which to loosen or tighten up bolts and nuts or devices of this character as commonly constructed, and it will be seen that the connecting devices are of such form as to be readily operated by hand. Furthermore, the parts of the device are of a detachable nature so that they can be constructed cheaply and with a comparatively small amount of labor. The legs 3 are also adapted to be made of tubular stock or piping and the entire device thereby considerably lightened, but at the same time preserving the strength thereof.

Having thus described the invention what is claimed as new is:—

In a truss of the character set forth, the combination of opposite heads composed of horizontally-extending collars having integral collars on opposite sides thereof arranged at an angle thereto obliquely in vertical planes and divergent therefrom, the said integral collars extending below the said horizontally-extending collars, legs adjustably and removably mounted in said integral collars and formed with lower tapered ends, a connecting-bar removably engaging said horizontally-extending collars and having perfo-

5 rations therein at the opposite ends thereof,  
drop-pins for engaging the perforations, and  
clamping thumb or hand screws mounted in  
said integral collars for holding said legs in  
their adjusted position, substantially as de-  
scribed.

In testimony that I claim the foregoing as

my own I have hereto affixed my signature in  
the presence of two witnesses.

LINDSAY H. BRADLEY.

Witnesses:

ALVIN W. BEATTY,  
S. H. HARRIS.