Feb. 7, 1928. 1,658,041

J. A. CURRY

FORM SUPPORT

Filed March 25, 1927

Fig. 1.

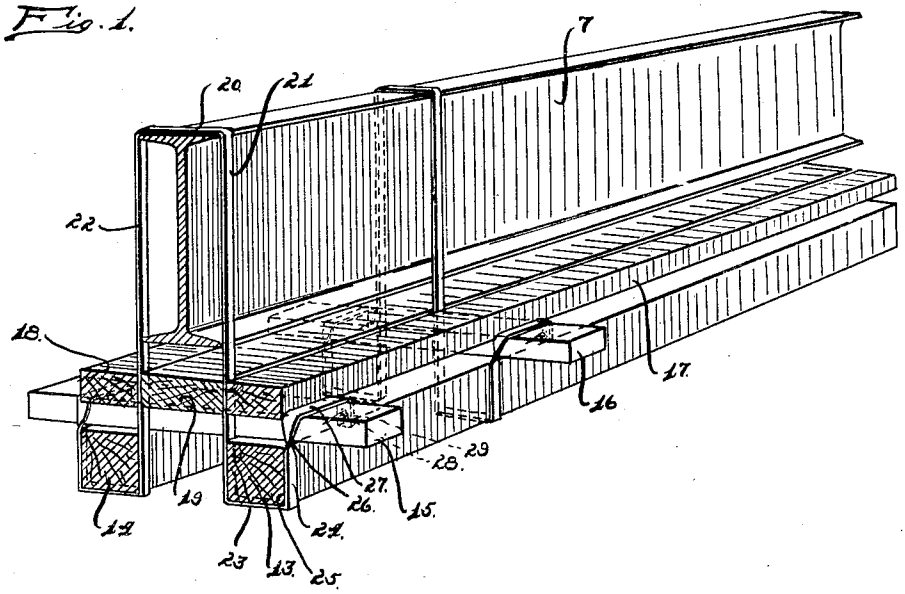

Fig. 2.

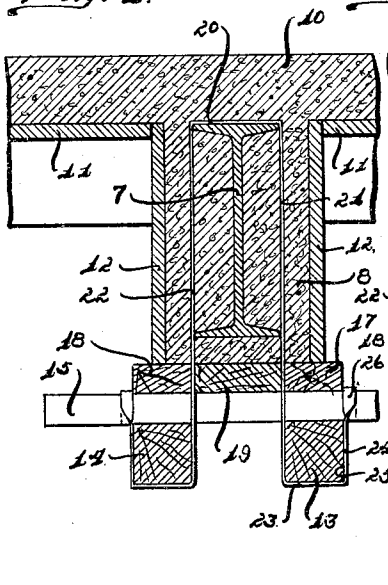

Fig. 3.

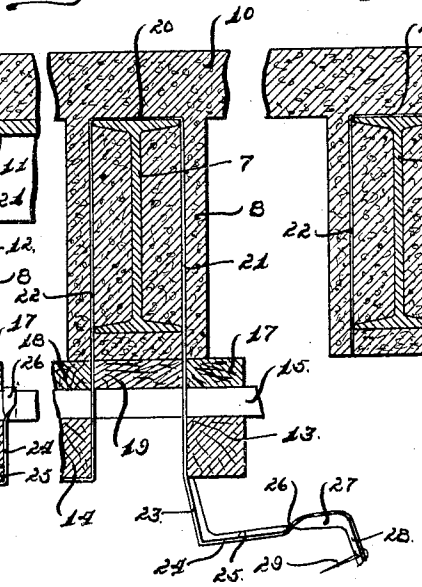

Fig. 4.

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UNITED STATES PATENT OFFICE.

JAMES A. CURRY, OF DETROIT, MICHIGAN.

FORM SUPPORT.

Application filed March 25, 1927. Serial No. 178,289.

My invention relates to a new and useful improvement in a form support adapted for supporting forms used in fireproofing steel materials, and particularly the form used in fireproofing beams and laying floor slabs.

It is an object of the present invention to provide a support of this class in which the material used in the form may be rough material, and of a size readily obtainable on the market so that a planing, ripping or otherwise modifying the lumber or material used for the form is dispensed with.

It is another object of the invention to provide a support of this class which may be very easily and quickly removed therefrom.

Another object of the invention is the provision of a support of this class which, after the setting of the concrete, is embedded in the same, and the projecting ends of which may be very easily and quickly removed.

Other objects will appear hereinafter.

The invention consists in the combination and arangement of parts hereinafter described and claimed.

The invention will be best understood by a reference to the accompanying drawings which form a part of this specification, and in which,

Fig. 1 is a perspective view of a beam showing the invention applied in supporting relation.

Fig. 2 is a sectional view of a beam showing the invention applied and the concrete poured therein.

Fig. 3 is a view similar to Fig. 2 showing the form support released for removal of the form therefrom.

Fig. 4 is a view similar to Fig. 3 showing the form removed and the projecting ends of the support severed.

In the drawings I have illustrated an I-beam 7 about which for fireproofing purposes there is to be poured the concrete or fireproofing material 8 supporting the floor slab 10. Form members 11 and 12 are used for engaging the plastic material and retaining the same in position until it is set, so that the necessary thickness of fireproofing material is mounted around the beam 7 and the floor slab 10. As a support for this form I have provided a U-shaped member, the bight 20 of which engages the upper surface of the I-beam 7 and the legs 21 and 22 of which depend therefrom. Each of the legs 21 and 22 is similarly formed at its end so that a description of one will serve as a description for both.

An angularly turned portion 23 is formed on the leg 21, this angularly turned portion being again angularly turned to provide the portion 24 which extends parallel to the leg 21 and serves to form with the lower end of the leg 21 a U-shaped channel 25. The portion 24 is twisted as at 26 and angularly turned to provide the portion 27, its end 28 being again angularly turned to provide a U-shaped portion. Beams 13 and 14 are positioned parallel to the I-beam 7 and engage in the channels 25, the supporting members serving to retain these beams at proper distances below the I-beam 7. Extending transversely of and resting upon the beams 13 and 14 are beams 15 and 16 which serve to support the beams 17 and 18 which extend parallel to the I-beam 7. These beams are those which are customarily used in supporting the false work for fireproofing purposes, and it is to support these elements that the invention is provided.

It will be noted that the transversely extending beams 15 and 16 engage in the U formed by the portion 24 and the angularly turned end 28, the bight 27 thereof resting on the upper surface of the beams 15 and 16. When the beams are supported in the supporting member in the manner indicated, a nail 29 may be driven through the angularly turned ends 28 into the beams 15 and 16 so that a form support is provided. With a support of this class, the beams 13 and 14, as well as the transversely extending members 15 and 16 and the support 17, need not be planed or hewn to any special size as is customary with supports which are now used.

It will also be noted that no drill holes are necessary in the false work as the support serves to receive and retain these members loosely positioned.

When it is desired to remove the false work, the nail 29 is withdrawn and the lower end of the support bent, as shown in Fig. 3. The supporting members may then be removed and the legs 21 and 22 clipped closely to the bottom of the reinforcement of the I-beam 7, thus affording a neat and efficient support, easily and quickly mounted in position, and upon which the supporting timbers may be easily and quickly placed.

While I have illustrated and described the preferred form of my invention I do not

wish to limit myself to the precise details of structure shown, but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

Having thus described my invention what I claim as new and desire to secure by Letters Patent is:

1. A support of the class described comprising: a U-shaped member having its legs doubled upon themselves to provide a U and the end of the doubled over portion laterally turned.

2. A support of the class described comprising: a U-shaped member having its legs doubled upon themselves to provide a U and the end of the doubled over portion laterally turned; and an angularly turned portion on the laterally turned end to provide a shallow U shaped portion.

3. A form support of the class described comprising: a member for engaging and depending from an I-beam; a U shaped portion on the depending end thereof for engaging the timber placed thereon; and a laterally turned U shaped portion for engaging the upper surface of a transversely extending timber.

In testimony whereof I have signed the foregoing specification.

JAMES A. CURRY.