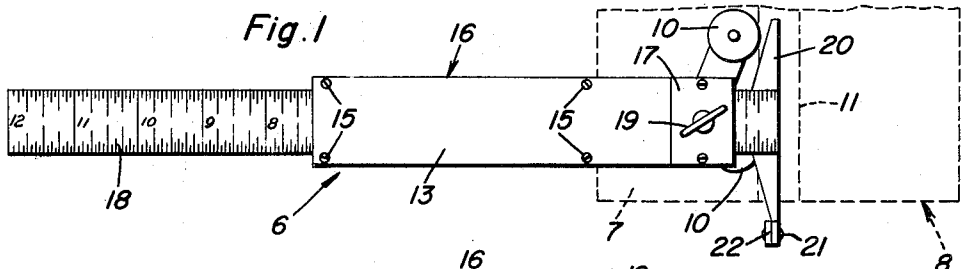
Jan. 15, 1957 C. J. SKRABAN 2,777,208

BEAM GAUGE

Filed Sept. 20, 1955

Fig. 1



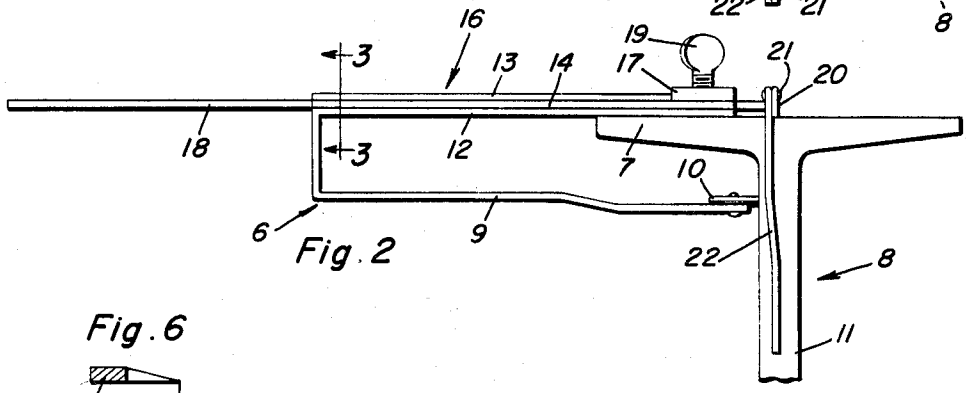


Fig. 2

Fig. 6

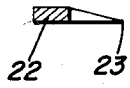


Fig. 4

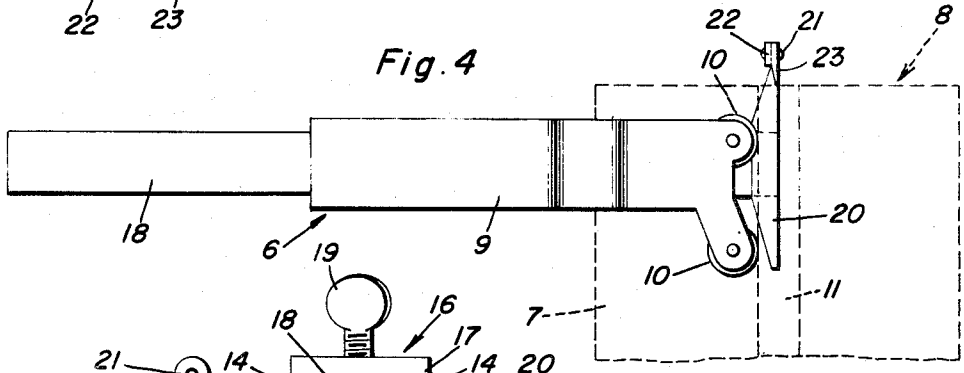


Fig 5

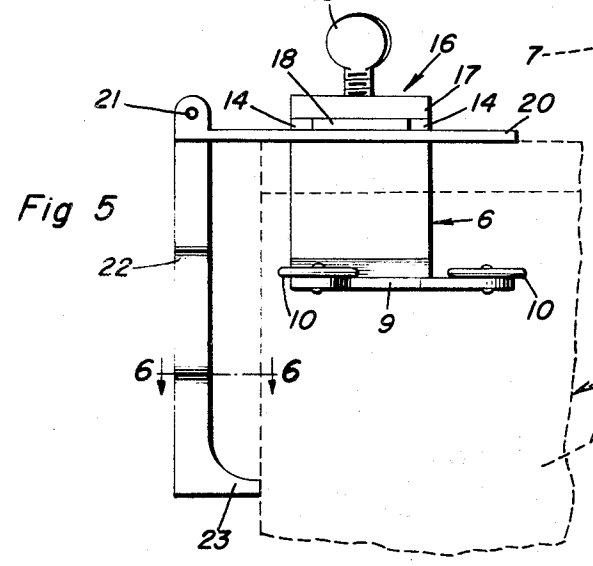
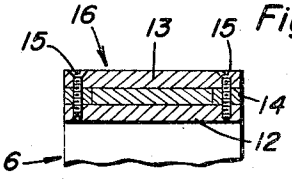


Fig. 3



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BEAM GAUGE

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Application September 20, 1955, Serial No. 535,384

4 Claims. (Cl. 33—174)

The present invention relates to new and useful improvements in gauges for use particularly on I-beams, etc., and has for its primary object to provide, in a manner as hereinafter set forth, novel means for expeditiously scribing the exact center of the beam web.

Another very important object of the invention is to provide a gauge of the aforementioned character which may be readily adjusted for use on beams of various sizes.

Other objects of the invention are to provide a beam gauge of the character described which will be comparatively simple in construction, strong, durable, compact, light in weight, highly efficient and reliable in use and which may be manufactured at low cost.

These together with other objects and advantages which will become subsequently apparent reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming a part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a top plan view of a beam gauge constructed in accordance with the present invention, showing the device in use;

Figure 2 is a view in side elevation thereof;

Figure 3 is a view in transverse section, taken substantially on the line 3—3 of Figure 2;

Figure 4 is a bottom plan view of the device;

Figure 5 is an end elevational view; and

Figure 6 is a view in horizontal section, taken substantially on the line 6—6 of Figure 5.

Referring now to the drawing in detail, it will be seen that the embodiment of the invention which has been illustrated comprises a substantially U-shaped frame of metal or other suitable material which is designated generally by reference character **6**. The frame **6** is adapted to straddle one of the flanges **7** of the I-beam **8** to be scribed. The lower leg **9** of the frame **6** has journaled on its free end portion a pair of rollers **10** which travel on the web **11** of the beam **8** beneath the flange **7**. The upper leg **12** of the frame **6** has mounted longitudinally thereon an elongated plate **13** with spacers **14** therebetween, the assembly being secured by screws **15** for providing a sleeve **16**. The sleeve assembly **16** further includes a relatively thick plate **17** which abuts the forward end of the plate **13**.

The sleeve **16** is for the reception of a slidably adjustable scale bar **18**. A set screw **19** is threadedly mounted in the plate **17** for securing the scale bar **18** in adjusted position. Fixed transversely on the forward end portion of the scale bar **18** is a crosshead of suitable material providing a straight edge **20**.

Pivotally secured at **21** for swinging movement in a vertical plane on one end portion of the straight edge **20** is an indicator **22**. The indicator **22** terminates at its free end in a right angularly extending contact point **23** for engagement with one end of the web **11** of the beam **8**.

It is thought that the operation or use of the instrument will be readily apparent from a consideration of the foregoing. Briefly, the device is positioned transversely on the flange **7** of the beam **8** at a point adjacent one end of said beam. The end portion **23** of the indicator **22** is then engaged with one end of the beam web **11** at the center thereof, which may be located in any suitable manner. The set screw **19** is then tightened for securing the scale **18** in adjusted position in the sleeve **16** of the frame **6**. The member **22** is then swung upwardly to inoperative position and the instrument is moved longitudinally on the beam **8** as desired. Using a suitable marker, the exact center of the web **11** may now be scribed on the beam through the medium of the straight edge **20**. The construction of the device, it will be observed, is such that the instrument may readily be used on beams of various sizes.

The foregoing is considered as illustrative only of the principles of the invention. Further, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction and operation shown and described, and accordingly all suitable modifications and equivalents may be resorted to, falling within the scope of the invention as claimed.

What is claimed as new is as follows:

1. A beam gauge of the character described comprising: a substantially U-shaped frame adapted to straddle a flange of the beam at right angles thereto, a scale bar mounted for longitudinal sliding adjustment on one of the legs of said frame, rollers on the other leg of the frame operable on the beam beneath said flange, a straight edge mounted transversely on one end portion of said scale bar and engageable longitudinally on the beam, and an indicator pivotally mounted on one end portion of said straight edge and swingable in the longitudinal plane thereof for engagement with an end of the web of the beam to facilitate adjusting the scale bar to the desired position.

2. An I-beam gauge of the character described comprising: a substantially U-shaped frame adapted to straddle a flange of the beam at right angles thereto, a sleeve on one of the frame legs, rollers on the other frame leg operable on the beam beneath said flange, a scale bar mounted for longitudinal sliding adjustment in said sleeve, means for securing said scale bar in adjusted position, a straight edge mounted transversely on one end portion of the scale bar and engageable longitudinally on the beam, and an indicator pivotally mounted for swinging movement on one end portion of said straight edge in the longitudinal plane thereof and engageable with one end of the web of the beam to facilitate adjusting the scale bar to the desired position.

3. An I-beam gauge of the character described comprising: a substantially U-shaped frame adapted to straddle a flange of the beam at right angles thereto, rollers on one of the legs of said frame operable longitudinally on the web of the beam beneath said flange, a scale bar mounted for longitudinal sliding adjustment on the other leg of the frame, a straight edge mounted transversely on one end portion of said scale bar and engageable longitudinally on the beam, and an indicator pivotally mounted for swinging movement on one end portion of said straight edge in the longitudinal plane thereof and engageable with one end of the beam web to facilitate adjusting the scale bar to the desired position.

4. An I-beam gauge of the character described comprising: a substantially U-shaped frame adapted to straddle a flange of the beam at right angles thereto, rollers mounted on the free end portion of one of the legs of the frame and operable longitudinally on the beam web, a longitudinal sleeve on the other leg of the frame, a scale bar mounted for sliding adjustment in said sleeve, means for securing said scale bar in adjusted position in said

sleeve, a straight edge mounted transversely on one end portion of the scale bar and engageable longitudinally on the beam, and an indicator pivotally mounted for swinging movement on one end portion of said straight edge in the longitudinal plane thereof and engageable with one end of the beam web to facilitate adjusting the scale bar to the desired position.

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