

**May 22, 1951**

**M. MORELLO**

**2,553,668**

**LEVEL MAGNETIC ATTACHMENT**

Filed Aug. 5, 1948

**Fig. 1.**

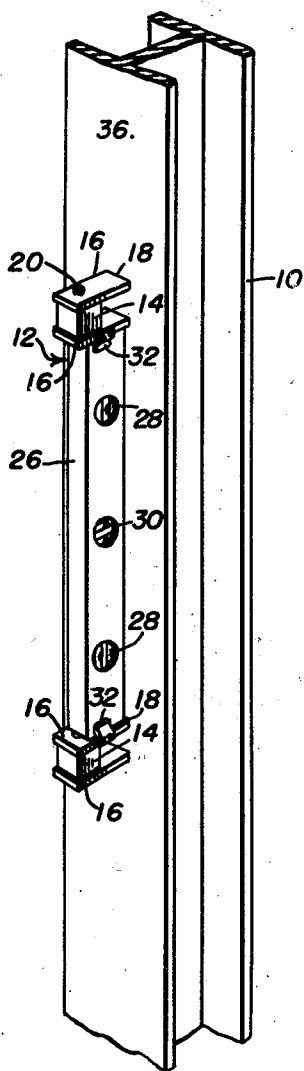


**Fig. 2.**

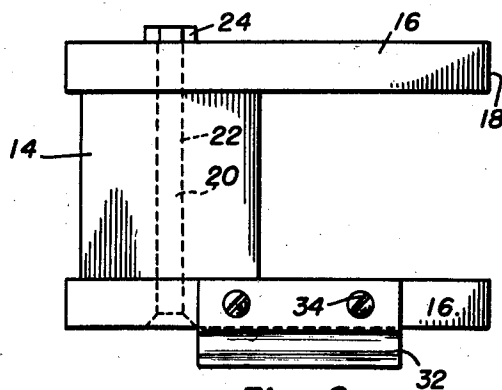


**Fig. 3.**

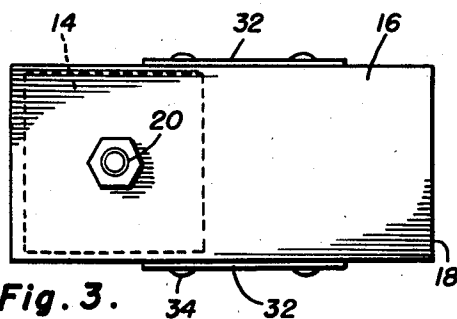
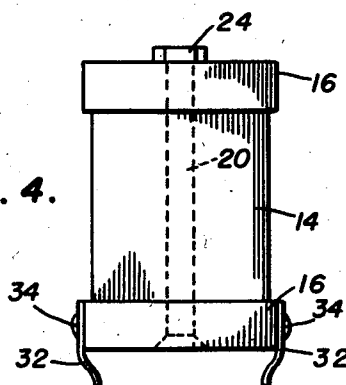


**Fig. 4.**



**Michael Morello**  
**INVENTOR.**

**BY**

BY *Thomas A. O'Brien*  
*and Harvey R. Jacobson*  
Attorneys

## UNITED STATES PATENT OFFICE

2,553,668

## LEVEL MAGNETIC ATTACHMENT

Michael Morello, Hartford, Conn.

Application August 5, 1948, Serial No. 42,696

2 Claims. (Cl. 33-207)

1

This invention relates to an attachment for spirit levels and has for its primary object the provision of a magnetic holder which will maintain the spirit level in a fixed position against the face of an upright metallic member.

Another object of the invention is to provide a magnetic level attachment which holds the level against the steel upright without the necessity of supporting such a level by hand.

Yet another object of this invention is to provide a magnetic level attachment which is automatically held against the face of an upright while the latter is being adjusted to its correct vertical position with respect to the ground surface. Such adjustments may be made by merely referring to the bubble in the spirit level automatically maintained against the upright. As a consequence, a great deal of time and labor is saved in adjusting the upright to its proper vertical position.

These, together with various ancillary objects and features of the invention which will later become apparent as the following description proceeds, are attained by the device, a preferred embodiment of which has been illustrated by way of example only in the accompanying drawings, wherein:

Figure 1 is a perspective view of the attachment as applied to a vertical steel beam;

Figure 2 is a side elevational view of one of the complementary members making up the attachment of the instant invention;

Figure 3 is a top plan view of the device; and

Figure 4 is an end elevational view of one of the devices shown in Figures 2 and 3.

Specific reference is now made to the drawings. In the several views in the accompanying drawings and in the following specification reference characters indicate corresponding elements throughout.

Indicated generally at 10 is a conventional steel I-beam which is to be erected and adjusted in a vertical position in any suitable structure. To facilitate erection of this I-beam in its proper vertical position, the attachment of the instant invention generally indicated at 12 is automatically supported thereon and consists of the following structural elements.

A pair of magnets 14, preferably fabricated of the alloy Alnico (aluminum, cobalt, and nickel), are provided which, as shown in the drawings, are preferably rectangular in shape. Secured to opposite faces of each of the magnets 14 is a pair of metallic, preferably steel, plates 16 which

2

extend beyond the magnets 14 themselves to provide bearing surfaces 18 for the I-beam 10.

The plates 16 are secured to the magnets 14 by bolts 20 which extend through suitable aligned apertures in the plates and a bore 22 in the magnet. It will of course be understood that the plates 16 may be removably secured to the magnets 14 by providing external screw threads at the end of the bolt and an internally screw threaded nut 24 to engage such threads.

The opposing plates 16 are further provided with means for detachably securing and retaining thereon a conventional spirit level 26 which, as shown in Figure 1, includes a pair of vertical indicators 28 and a horizontal indicator 30. The level retaining means consists of conventional spring clips 32, and as shown clearly in Figure 4, a pair of such clips is removably secured by means of screws 34 to the longitudinal edges of each of the opposing plates 16. The spirit level 26 is simply resiliently and frictionally retained in these spring clips.

In practical operation, the spirit level 26 is assembled upon the spaced magnets 14 and simply positioned upon a face 36 of the I-beam 10. The I-beam is then adjusted to its correct inclination to the ground surface when the spirit level indicators 28 and 30 properly register this inclination.

In view of the foregoing description taken in conjunction with the accompanying drawings it is believed that a clear understanding of the device will be quite apparent to those skilled in this art. A more detailed description is accordingly deemed unnecessary.

It is to be understood, however, that even though there is herein shown, and described a preferred embodiment of the invention the same is susceptible to certain changes fully comprehended by the spirit of the invention as herein described and the scope of the appended claims.

Having described the invention, what is claimed as new is:

1. Means for suspending a level on a metallic upright comprising a pair of spaced substantially rectangular magnets, a pair of opposing metallic plates removably secured to opposite faces of and extending beyond said magnets, and means carried by the opposing plates for detachably retaining a level thereon, said level retaining means including a pair of spring clips removably secured to each opposing plate, the ends of the plates adapted to engage the metallic upright being in the same plane with the straight edge surface of a level.

3

2. Means for suspending a level on a metallic upright comprising a pair of spaced substantially rectangular magnets, a pair of metallic plates removably secured to the opposite faces of each of said magnets and extending beyond each of said magnets, and means carried by the adjacent plates of the spaced magnets for detachably retaining a level thereon, said level retaining means including a spring clip removably secured to each of said adjacent plates, the ends of all of the plates adapted to engage the metallic upright being in the same plane with the straight edge surface of a level.

MICHAEL MORELLO.

4

## REFERENCES CITED

The following references are of record in the file of this patent:

## UNITED STATES PATENTS

| Number    | Name             | Date          |
|-----------|------------------|---------------|
| 527,815   | Schnell -----    | Oct. 23, 1894 |
| 1,174,887 | Meriwether ----- | Mar. 7, 1916  |
| 1,346,619 | Weathersby ----- | July 13, 1920 |
| 1,617,937 | Boucher -----    | Feb. 18, 1927 |
| 1,932,143 | Piercy -----     | Oct. 24, 1933 |
| 2,117,132 | Baermann -----   | May 10, 1938  |
| 2,269,149 | Edgar -----      | Jan. 6, 1942  |
| 2,292,968 | Peters -----     | Aug. 11, 1942 |
| 2,297,806 | Smith -----      | Oct. 6, 1942  |