April 5, 1932. W. D. WILLIAMS ET AL 1,852,910

COMBINATION STEEL FENCE LINE POST AND SNOW FENCE POST

Filed Dec. 6, 1930

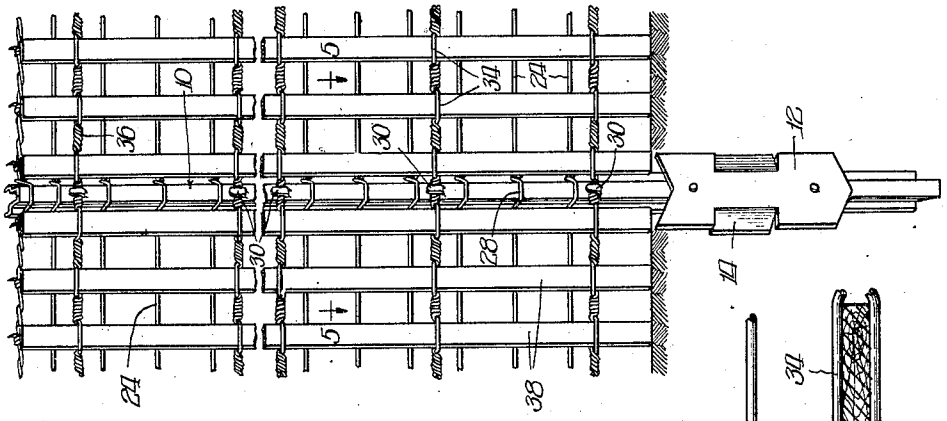

Fig. 4

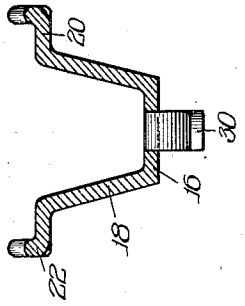

Fig. 3

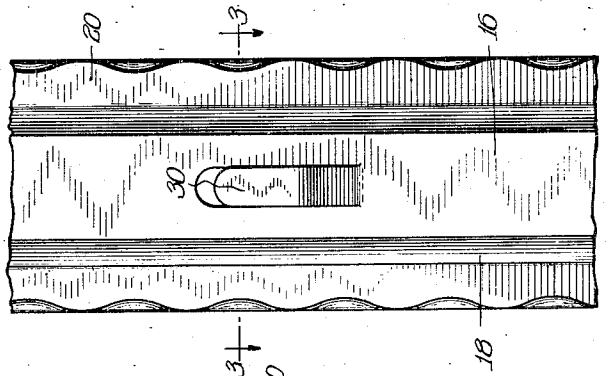

Fig. 2

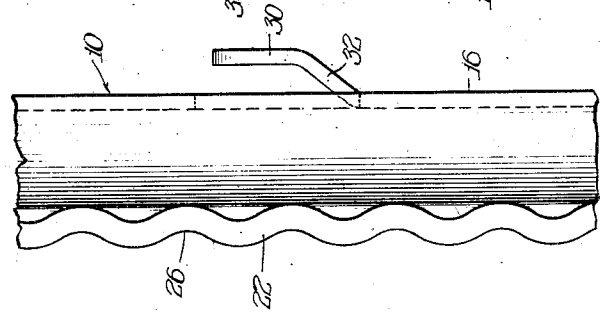

Fig. 1

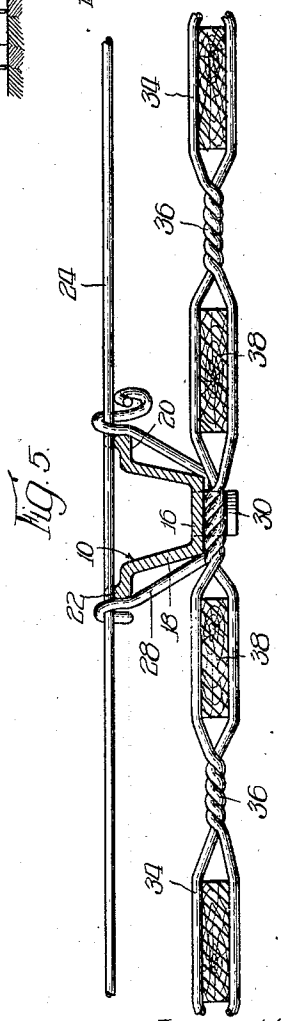

Fig. 5

Inventors
William D. Williams,
Frank Czerniba,
Henry W. Wilson,
Harry H. Lumley,
By Masius and Rauber attys.

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UNITED STATES PATENT OFFICE

WILLIAM D. WILLIAMS, FRANK CZEMBA, HENRY W. WILSON, AND HARRY H. LUMLEY, OF DULUTH, MINNESOTA

COMBINATION STEEL FENCE LINE POST AND SNOW FENCE POST

Application filed December 6, 1930. Serial No. 500,644.

The invention relates to a new and improved fence post and more particularly to a post formed from a uniform rolled metal section.

Posts of the above type are designed to carry wire fence, the fencing engaging one face of a post and being secured to the same by the use of attaching clips in such a manner that the fence strands are not positively held but are allowed a certain amount of slip horizontally across the post. In addition the post of the present invention is provided with novel means for supporting a snow fence in a manner such that the same may have limited movement across the face of the post and yet be securely held, with provision being made for easy removal therefrom.

An object of the invention is to provide a post which will have sufficient strength with a minimum of weight for supporting a wire fence and a snow fence.

Another object is to provide a post with novel means for supporting, in addition to a wire fence, a snow fence and which will ensure adequate strength, both perpendicular to and along the supported fence structures to withstand the stresses and strains produced.

Yet another object is to provide a post having means on one face for permitting a plurality of wire strands to be secured thereto with independent means struck from the metal of the opposite face for removably supporting a snow fence.

With these and various other objects in view, the invention may consist of certain novel features of construction and operation, as will be more fully described and particularly pointed out in the specification, drawings and claims appended hereto.

In the drawings, which illustrate an embodiment of the device and wherein like reference characters are used to designate like parts—

Figure 1 is a side elevational view of the improved post constructed in accordance with the present invention;

Figure 2 is a rear elevational view of the same;

Figure 3 is a sectional view taken substantially on the plane indicated by line 3—3 of Figure 2;

Figure 4 is an elevational view showing the post as providing a support for wire fence strands and also for a snow fence; and

Figure 5 is a sectional view taken substantially on the plane indicated by line 5—5 of Figure 4.

The post of the present invention, indicated generally by the numeral 10, is formed from a rolled metal section of channeled shape and is adapted to have one end driven into the ground for supporting the same in upright position. In order to rigidly and non-rotatably locate the post in the ground the lower end of the post is provided with a spade 12 secured to one face thereof by suitable securing means, the spade being formed with bent portions 14 to provide a more efficient anchoring means.

The structure of the post clearly shown in Figure 3 comprises a channeled section having a rear face 16 joined by diagonal wing portions 18 with the outer ends of the wing portions being curved to form front faces 20 substantially parallel with the rear face 16. Flanges 22 are provided on the front faces at their outer extremities and perpendicular thereto and form with the front faces means for locating a horizontal wire strand 24 in vertical position on the post. For the purpose the flanges 22 are notched at intervals as at 26. The wire strands 24 are located in the notched portions 26 and are held in vertical position by means of the wire attaching clips 28, the notched portions functioning to maintain the clip together with the wire strand which it engages at the desired height and to prevent the same from slipping on the post. The above construction results in a post section having many desirable features and one which possesses adequate strength, both in a direction along the line of the supported strands and also at right angles thereto, since the faces 16 and 20 assume the stresses in the direction of the fence, while the diagonal portions 18 take up the stresses at right angles to the fence, with the result that the post is rigid and well able to support the fence structures and also

to withstand any bending strains to which it may be subjected.

The improved post is further provided with additional means for supporting additional fence structure, which in the illustrated embodiment may comprise a snow fence. In actual practice it is desirable that the snow fence be spaced from the wire fencing and located inward from the adjacent fence structure, so that the weight of the snow will be supported wholly by the snow fence which, of course, is constructed in a manner to withstand the same. The rear face 16 is provided with an outwardly projecting lug 30 which is formed by striking from the metal of the rear face a portion thereof and bending the same rearwardly so as to form the lug 30. A number of lugs are thus formed integrally with the post, and the operation of striking the same from the metal of the rear face has an advantage as it can be accomplished after the post section has been rolled, as above stated. In handling the post it has been found that it is often dropped or thrown with the result that the lug 30 receives severe blows and in order that the portion of the lug joining the same to the face 16 will be of sufficient strength to absorb the shocks and severe bending stresses to which it is subjected, the base of the lug is formed on a diagonal 32 constructed in a manner to form an angle of substantially forty-five degrees or less with the face 16. Bending of the base portion 32 of the lug sufficiently to form a substantially greater angle with the face would result in weakening the metal joining the lug to the face so that the lug would readily break.

In Figures 4 and 5 the construction of the snow fence is shown as comprising horizontal wire strands 34, which are twisted at intervals as at 36 to securely unite the strands, and at intermediate portions are spaced so as to receive the wooden staves 38. The wooden staves are located sufficiently close together to form an obstacle in the path of the driven snow, so that the same is efficiently backed by the structure and prevented from drifting on the road along the sides of which the fence is placed. In order to securely unite the vertical staves 38 the horizontal wire strands 34 with their twisted portions 36 are located at suitable intervals along the length of the staves. In securing the snow fence to the post 10 it is seen that it is only necessary to locate the portion 36 within the space defined by the face 16 of the post and the lug 30. The length of the portions 36 are such that limited movement of the strands across the rear face of the post is possible and the lugs 30 are provided in the post at intervals such as to coincide with the spacing of the strands 34 on the snow fence.

The use of the channeled post described provides spaced faces for supporting in spaced relation the fence structures and in addition provides a post of adequate strength with a minimum of weight for withstanding the stresses produced by the supported structures. The lugs permit ready attachment of the snow fence to the post and also easy removal therefrom. The striking of the lug from the metal of the rear face constitutes a relatively simple operation and has the additional advantage that the post structure is not weakened. Forming the base of the lug on a diagonal is also considered an important feature, since it results in minimum bending of the metal and thus maximum strength which is necessary to absorb the severe shocks and blows the lugs receive in the handling and stacking of the posts.

It is to be understood that we do not wish to be limited by the exact embodiment of the device shown, which is merely by way of illustration and not limitation, as various and other forms of the device will of course be apparent to those skilled in the art without departing from the spirit of the invention or the scope of the claims.

We claim:

1. A fence post of channeled section having front and rear faces, diagonal portions connecting said faces, flanges formed on said front face substantially perpendicular thereto, and lugs provided on said rear face, said flanges and lugs forming means for supporting fence structures in spaced relation.

2. A fence post of channeled section having front and rear faces, diagonal portions connecting said faces, flanges formed on said front face and provided with notches, and lugs struck from the metal of the rear face, said notched flanges and lugs forming means for supporting fence structures in spaced relation.

Signed at Duluth, Minnesota, this 20th day of November, 1930.

WILLIAM D. WILLIAMS.
FRANK CZEMBA.
HENRY W. WILSON.
HARRY H. LUMLEY.