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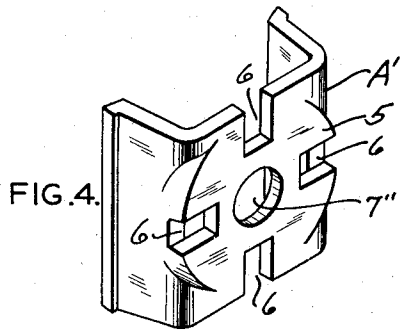
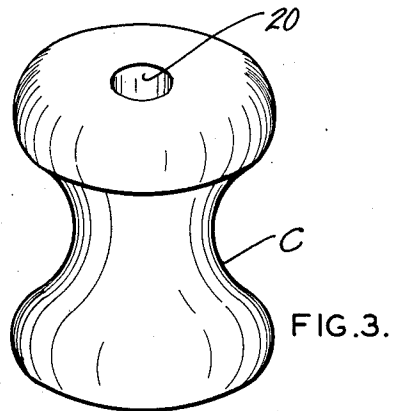
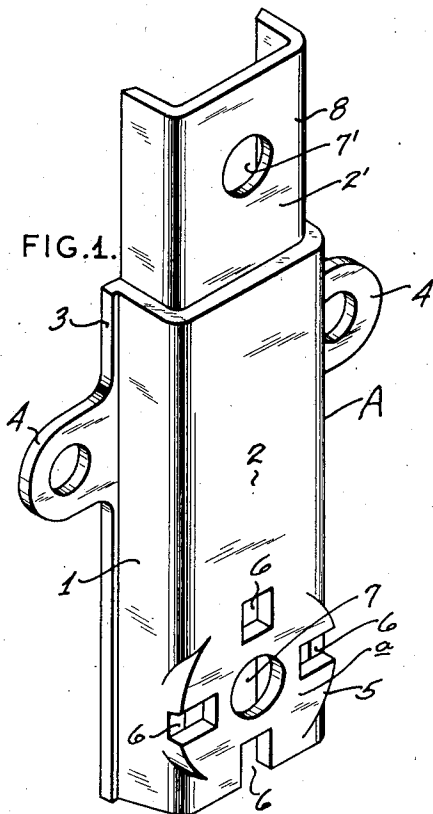
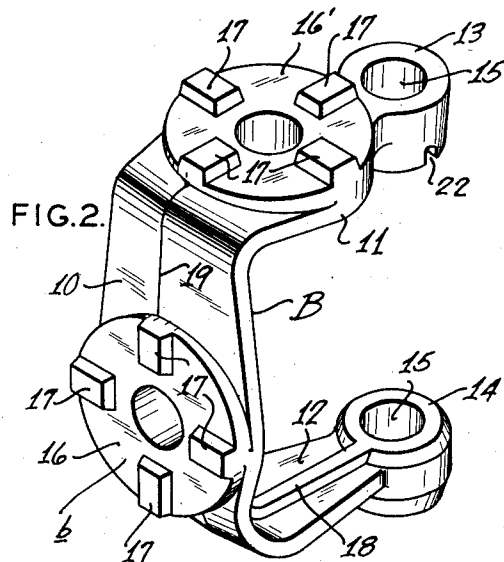
G. McD. JOHNS

2,300,673

SECONDARY RACK

Filed June 24, 1940

2 Sheets-Sheet 1



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2 Sheets-Sheet 2

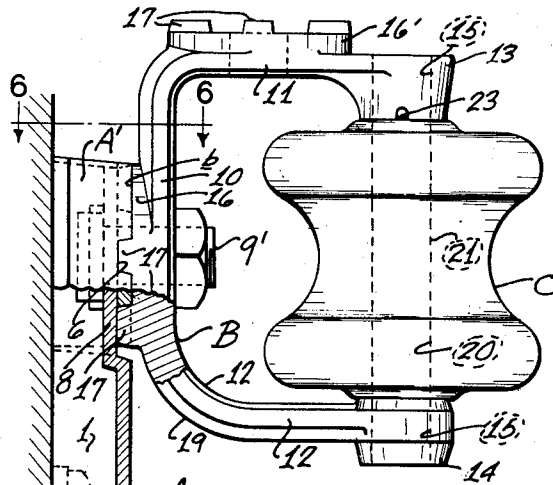


FIG. 5.

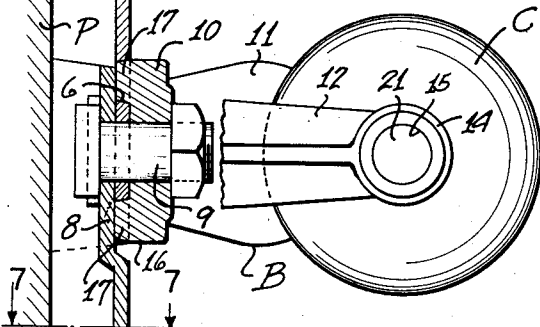


FIG. 6.

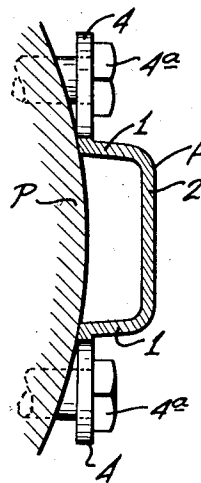


FIG. 7.

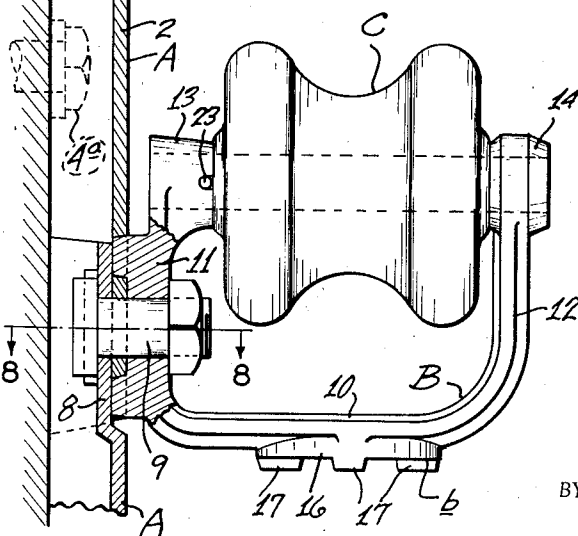


FIG. 8.

INVENTOR.
GEORGE McD. JOHNS
BY *Charles H. Smith*
ATTORNEY.

UNITED STATES PATENT OFFICE

2,300,673

SECONDARY RACK

George McD. Johns, Sappington, Mo., assignor to
Smithjohns, Inc., Sappington, Mo., a corporation of Missouri

Application June 24, 1940, Serial No. 342,138

4 Claims. (Cl. 248—67.7)

This invention relates generally to electric line equipment and, more particularly, to a certain new and useful improvement in devices commonly designed secondary racks for supporting telephone and electric transmission lines and the like.

My invention has for its primary objects the provision of a rack of the type and for the purposes stated which is simple, durable, and rugged in structure, which may be cheaply and economically manufactured, which may be quickly and conveniently installed, and which comprises support-engaging fixtures and insulator-supporting brackets uniquely constructed for rack enlargement or for selective disposition of the brackets for facile meeting practically all pole or line requirements.

And with the above and other objects in view, my invention resides in the novel features of form, construction, arrangement, and combination of parts presently described and pointed out in the claims.

In the accompanying drawings (2 sheets)—

Figures 1, 2, and 3 are perspective views of, respectively, the co-operable parts or members, namely, attachment-fixture, insulator-bracket or hanger, and insulation wire-engaging spool, of a so-called secondary rack embodying my present invention.

Figure 4 is a perspective view of a supplemental bracket-member uniquely co-operable with the main fixture for increasing or enlarging the wire-supporting capacity of the rack;

Figure 5 illustrates in longitudinal section a plurality of the bracket-supporting fixtures in connected or so-called gang relation; and

Figures 6, 7, and 8 are transverse sectional views taken approximately along the lines 6—6, 7—7, and 8—8, respectively, Figure 5.

Referring now in more detail and by reference characters to the drawings, which illustrate a preferred embodiment of my invention, the rack includes a fixture or attachment base A of oblong-rectangular channel formation and of suitable length, as best seen in Figure 1, the base A being constructed preferably as a unitary casting from malleable iron or other suitable metallic material and comprising preferably integrally a pair of approximately parallel longitudinal or side walls 1 connected or joined at their one or upper margin by a transverse top wall 2.

Along their rearwardly presented longitudinal margins, the side walls 1 are provided with narrow lateral flanges 3 and a pair of outwardly presented apertured ears 4 for fitting upon the

surface of a telephone post or the like P. As shown particularly in Figure 5, the ears 4 accommodate suitable bolts, as 4a, for convenient attachment of the fixture A to the supporting structure, as, for instance, the post P.

Preferably the base top wall 2 is for the most part slightly arcuately crowned transversely of the fixture. However, preferably at or adjacent its one or so-called lower end, reference being made to Figure 1, the wall 2 is suitably thickened and thereby formed with a preferably annular boss or enlargement 5 having a flat upper or outer face, as at a.

In turn, the top wall 2 and its boss 5 are jointly or integrally formed with an annular series of suitably spaced recesses or openings 6. In the present instance, there are four such recesses or openings 6 in said series equidistantly spaced; it will be understood, however, that such series may include a greater or lesser number of such recesses or openings and the spacing thereof may be varied to meet the specific requirements of any particular installation.

Formed preferably in and through the base top wall 2 and boss 5 in the diametrical center of the annular series of openings or recesses 6, is a bolt-accommodating opening or aperture 7.

At its opposite or so-called upper end, reference being again made to Figure 1, the base A is provided or formed preferably integrally with a longitudinally extending correspondingly channel-shaped tongue 8 of such relative dimensions as to fit and seat within the channel of a companion or second fixture A in an endwise enlargement of a particular rack-structure, the tongue 8 having an opening or aperture, as at 7', in its top wall 2' for registration, in such an endwise rack enlargement, with the opening 7 of such companion fixture A for receiving a fastening bolt 9 for securing said fixtures together in such associated or so-called gang relation.

Or, selectively, if it may be desired, the tongue 8 of a particular base of fixture A may be employed to fit and seat within a lengthwise reduced or supplemental base A', which, as best seen in Figure 4, is substantially identical in structure and form, except as to length and absence of post-attaching ears, with the main fixture or base A, and which is similarly formed with a flat boss or enlargement 5 and an annular series of spaced openings or recesses 6. Likewise the supplemental base A' has an opening or aperture 7' for registration, when the supplemental base A' is seated on a tongue 8, with the tongue aperture 7' for accommodating a fasten-

ing bolt 9' for securing the base A and supplemental base A' together in rack enlargement.

Co-operable with the fixture A or with a seated or mounted supplemental fixture A', is a clevis-shaped hanger or bracket B preferably in the form of a U-shaped malleable casting integrally including a bight 10 and opposed parallel legs 11, 12, preferably annularly enlarged at their free outer ends in the provision of insulator-receiving enlargements or so-called eyes 13, 14, having registering apertures 15.

Upon its outer or rearwardly presented face, the bight 10 is suitably thickened in the provision of a boss or enlargement 16 having a preferably flat outer face, as at b, and formed with an annular series of lugs 17 corresponding in number to the, and sized and spaced for interlocking engagement with the fixture boss 5 at its recess or opening 6.

On its outer face, the clevis-leg 11 is also provided with a like enlargement or boss 16' having a flat outer face and similarly formed with an annular series of lugs 17 again corresponding in number to the, and sized and spaced for interlocking engagement with the fixture boss 5 at its recess or opening 6.

Upon their inner face, the hanger or bracket legs 11, 12, are preferably centrally provided longitudinally with strengthening ribs 18, and the bracket bight 10 is preferably centrally ribbed, as at 19, for reinforcing or strengthening purposes.

Sized for fitting snugly intermediate the opposed faces of the clevis eyes 13, 14, is a spool-shaped insulator C constructed preferably of porcelain or other suitable dielectric material and provided with an axial bore, as at 20, for accommodating a supporting shaft 21 for projection endwise into the registering apertures 15, and fitting lengthwise in slots or recesses, as at 22, provided in the inner face of the hanger-eye 14 and engaging the shaft 21, is a locking-pin 23.

The fixture A and insulator-equipped hanger or bracket B are thus co-operatively uniquely formed for selective detachable interlocking or so-called tooth-engagement, the bracket B either at its boss 16 or at its boss 16' being engageable through the lugs 17 and opening 6 with a fixture A or a supplemental fixture A', with the insulator C correspondingly disposed, as may best meet requirements of the line or installation, at any selected angular relation to the particular fixture A or supplemental fixture A', as shown in Figure 5, the lugs 17 of the boss 16 or the lugs 17 of the boss 16' being engaged in any selected angular relation of the hanger B to the particular fixture A or supplemental fixture A', with the opening 6 of such fixture A or supplemental fixture A', as the case may be. In such engagements, as best seen in Figure 5, a fastening bolt 9 may be employed for both securing a fixture A and a companion fixture A' and a hanger B together, or a fastening bolt 9' may be employed for securing a supplemental base A' and a hanger B upon a single fixture A, or a fastening bolt 9'' may be employed for fastening an insulator-hanger B directly upon a fixture A.

The rack is thus conveniently and economically extensible, as well as also substantially universally adjustable with respect to the angularity of a

hanger B to the fixture or base proper of the rack. The rack indeed efficiently fulfills and performs in every respect the objects stated and all its intended functions, and it should be understood that changes and modifications in the form, construction, arrangement, and combination of the several parts of the rack may be made and substituted for those herein shown and described without departing from the nature and principle of my invention.

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

1. A secondary rack including a channel-shaped base having a flat-surfaced portion provided with a plurality of angularly spaced recesses, and an insulator bracket provided with a boss for flatwise disposition against the flat surface of the base and provided with a plurality of projecting members for snugly engaging said recesses for optionally holding the bracket in any one of several angular positions with respect to the base, said insulator bracket further having a second boss at right angles to, and having the identical shape of, the first-named boss for optionally securing the bracket in any one of several different angular positions each of which is at 90° to a corresponding one of the first-named angular positions.

2. A secondary rack including a channel-shaped base having a flat-surfaced portion provided with an aperture and a plurality of recesses arranged around the aperture and in spaced relation to each other, and an insulator bracket provided with a boss for flatwise disposition against the flat surface of the base and having an aperture for registration with the base aperture and projecting means for snugly seated engagement in said recesses for optionally holding the bracket in any one of several angular positions with respect to the base.

3. A secondary rack including, in combination, a base of channel shape in section including side walls rigidly joined in spaced parallel relation by a transversely disposed top wall, the latter being formed with a series of openings angularly disposed the one to the other, and an insulator-bracket having a series of teeth presented outwardly from a wall thereof and correspondingly angularly disposed the one to the other for fitting said openings for disposing the bracket in selected angular relation to and upon said top wall.

4. In a secondary rack, first and second bases each including side walls rigidly joined in spaced parallel relation by a transversely disposed top wall, the first base having a longitudinally extending tongue of corresponding channel shape and of relative dimensions for fitting and seating within the channel of an end portion of the second base, the top wall of the second base at said end portion being provided with a series of annularly disposed spaced openings, an insulator-bracket having an outwardly presented series of correspondingly annularly spaced lugs for fitting in said openings, and bolt-means engaging the bracket, the tongue, and said second base end portion for detachably securing said bases together in endwise alignment and said bracket thereupon.

GEORGE McD. JOHNS.