Aug. 13, 1929. S. BARCUS 1,724,548

ADJUSTABLE COAL CHUTE

Filed Aug. 14, 1928

FIG. 1

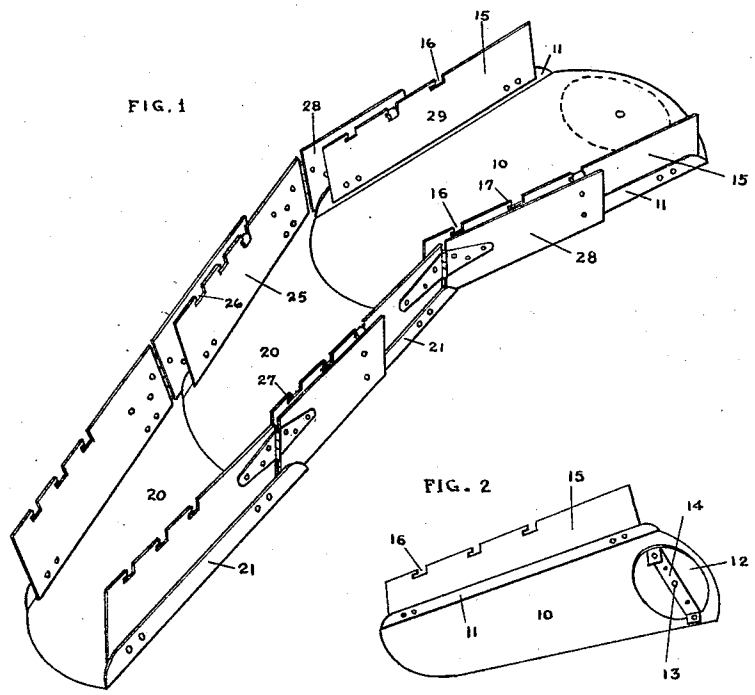
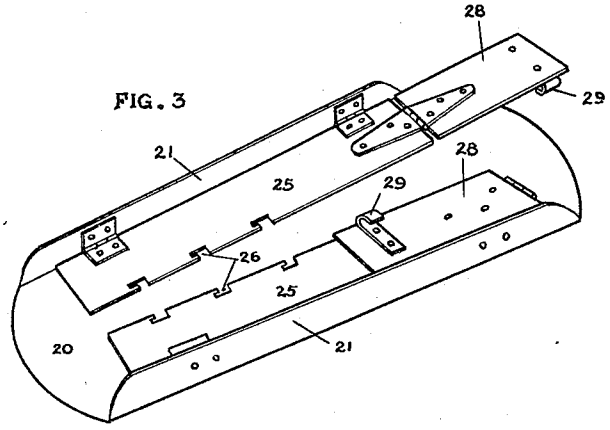


FIG. 2

FIG. 3



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ADJUSTABLE COAL CHUTE.

Application filed August 14, 1928. Serial No. 299,541.

My invention relates to coal chutes and one of its objects is the provision of a coal chute in sectional form so that it may be extended to any desired length.

Another of my objects is the provision of hinged connections whereby the coal chute may be adjusted angularly so as to deliver the coal to places which would be inaccessible with straight coal chutes.

Another of my objects is the provision of a primary member which is adapted to be adjustably secured to a coal truck so that it may be adjusted angularly with relation to the truck.

An important object of my invention is the provision of a sectional coal chute which is collapsible and foldable into small space.

It is also my object to provide a coal chute construction which is simple in operation and which can be made and sold at a low price.

Having in view these objects and others which will be pointed out in the following description, I will now refer to the drawings, in which

Figure 1 is a view in perspective showing the primary section and two of the extension sections in operative position.

Figure 2 is a view in perspective showing the under side of the primary section.

Figure 3 is an illustration showing one of the extension sections with the parts in partly folded condition.

The primary section has a base portion 10 with upstanding flanges 11 at its lateral edges. The section tapers somewhat toward the delivery end and at its upper end it is provided with a turntable 12 pivotally secured at 13 to the base 10. To the turntable 12 is also secured a strap 14 having means for securing the section to the truck. The section is thus angularly adjustable on the truck about its pivot 13. In addition two wings are hingedly secured to the base 10 adjacent the flanges 11 in a manner such that the wings may either rest against the flanges 11 or lie flat on the base 10. The wings are provided with a plurality of notches 16 which are so formed that a tongue 17 projects over the forward portion of the notch.

The extension sections are all similar in size and structure but they differ slightly from the primary section. Each has a base 20 which is identical in all respects to the base 10 except that the base 20 is not provided with a turntable. The base 20 is in all cases provided with a flange 21 similar to the flange 11 of the primary section. Hingedly secured to the base 20 are a pair of wings 25 which are similar to the wings 15 of the primary section. The wings 25 are provided with notches 26 having overhanging tongues 27 as in the case of the primary section. The extension sections differ from the primary sections mainly in the wing extensions 28 which are hingedly secured to the wings 25 at their upper or rear ends and these wing extensions are provided with hooks 29.

The manner in which the sections are assembled is best shown in Figure 1. The primary section is in place on the truck and in a few instances it may be found to be of sufficient length to deliver the coal where it is wanted. The second section may be attached by first unfolding the wing extensions 28 and then lifting the wings with the extensions to their upright positions. The extension section is then applied to the primary section by sliding the wider end of the extension section under the narrower end of the primary section to the desired distance. The hooks 29 are then caused to enter notches 16 so as to slide under the tongue 17 in order to prevent their displacement especially when the lower end of the chute rests on a support. If then it is desired to extend the chute to a greater length, a second extension section may be applied to the first in the same manner and the length of the chute may be extended to any desired length by merely adding identical extension sections. Where it is desired to deliver the coal along a straight line the hooks 29 are caused to engage notches 16 which are directly opposite each other but whenever it is necessary that the chute be adjusted through an angle the hooks 29 are caused to engage a pair of notches 16 having the desired angular relation. Since the wing extensions 28 are hingedly connected to the wings 25, it is possible to obtain any desired inclination within the scope of the notches 16.

With my coal chute it is possible to deliver the coal to corners of the coal bin which would be inaccessible with coal chutes of the ordinary types. The primary section alone is sometimes sufficient to deliver the coal where it is wanted but it is seldom necessary

for the driver to carry more than three sections with him at a time. These sections, however, are collapsible and they nest with each other so that they occupy very little space on the coal truck. The assembling of the sections is exceedingly simple and requires but very little time and the same thing is true of the separation and folding of the sections after the coal has been delivered.

It is evident that the chute as above described is useful not only for conveying coal but it may be equally useful for handling grain or other material of a similar nature. While I have described its use in connection with the handling of coal I do not wish to be limited to that use.

Having thus described my invention in such full, clear, and exact terms that its construction and operation will be readily understood by others skilled in the art to which it pertains, what I claim as new and desire to secure by Letters Patent of the United States is:

1. A coal chute having a primary section and an extension section, said primary section having narrow upstanding flanges at its lateral edges and having securing means for attachment to a truck, and wings hingedly secured to said primary section adjacent said flanges, said wings being each provided with a plurality of notches at the upper edge thereof, said extension section having upstanding flanges at the lateral edges thereof, wings hingedly secured to said extension section adjacent the flanges thereof, wing extensions hingedly secured to said wings, and hooks projecting from said wing extensions and adapted to engage in the notches of the wings of said primary section.

2. A coal chute having a primary section and an extension section, each of said sections having a base portion with lateral edges converging toward the delivery end thereof and having narrow upstanding flanges at the lateral edges of the base portion, each of said sections also having a pair of wing members hingedly secured to the base adjacent the flanges thereof, the wings of said primary section being provided with a plurality of notches in the upper edges thereof, wing extensions hingedly secured to the wing members of said extension section, and hooks projecting from said wing extensions, said hooks being adapted to engage in the notches of the wing members of said primary section.

3. A coal chute having a primary section and an extension section, each of said sections having a base portion with lateral edges converging toward the delivery end thereof and having narrow upstanding flanges at the lateral edges of the base portion, each of said sections also having a pair of wing members hingedly secured to the base adjacent the flanges thereof, the wings of said primary section being provided with a plurality of notches in the upper edges thereof, wing extensions hingedly secured to the wing members of said extension section, hooks projecting from said wing extensions, said hooks being adapted to engage in the notches of the wing members of said primary section, and a turntable secured to said primary section on the under side thereof and having securing means for attachment to a truck whereby said coal chute may be adjusted angularly.

In testimony whereof I affix my signature.

SYLVANIS BARCUS.