May 7, 1935. B. W. KELLETT 2,000,848

COAL BAGGING MACHINE

Filed Dec. 27, 1932 2 Sheets-Sheet 1

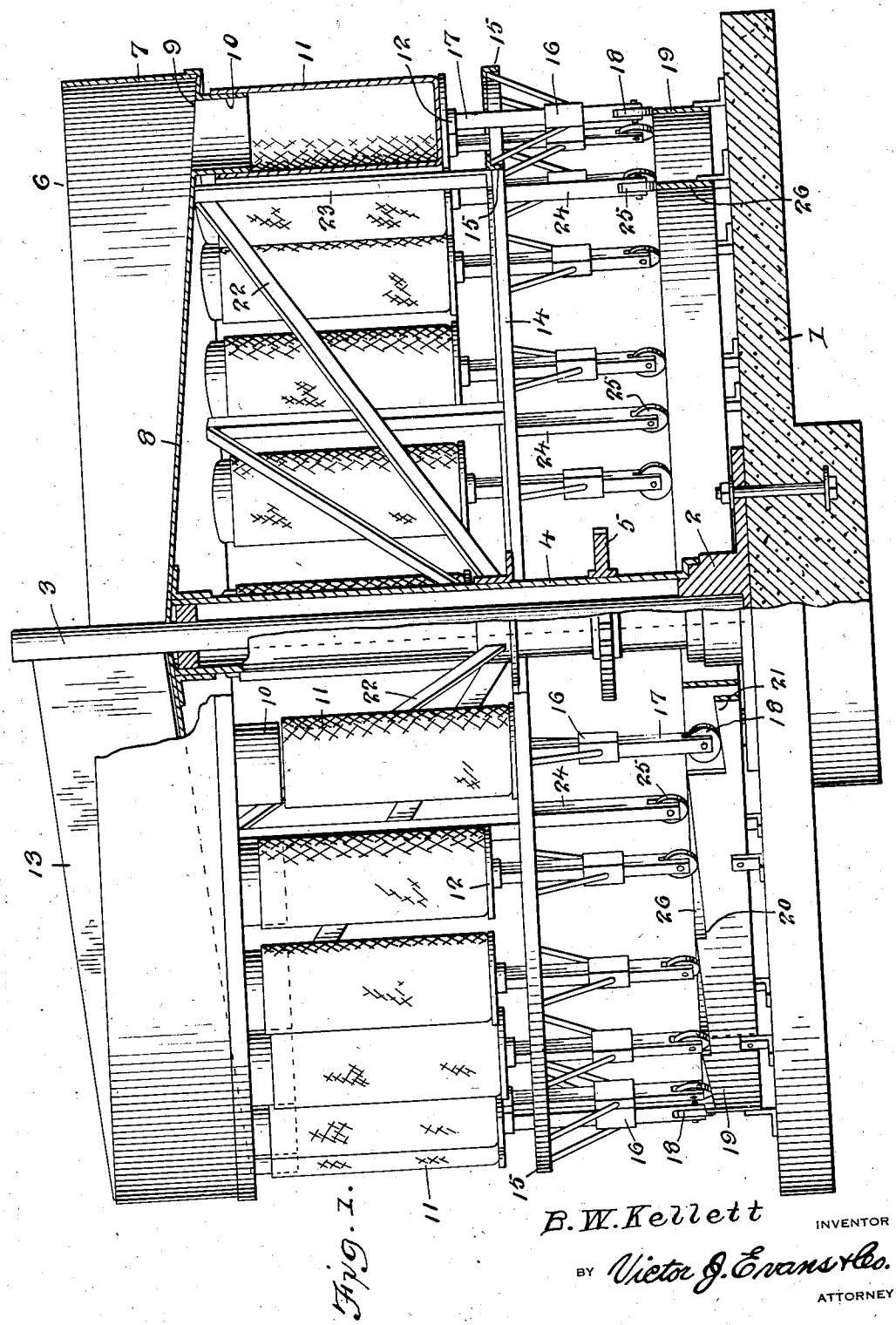


Fig. 1.

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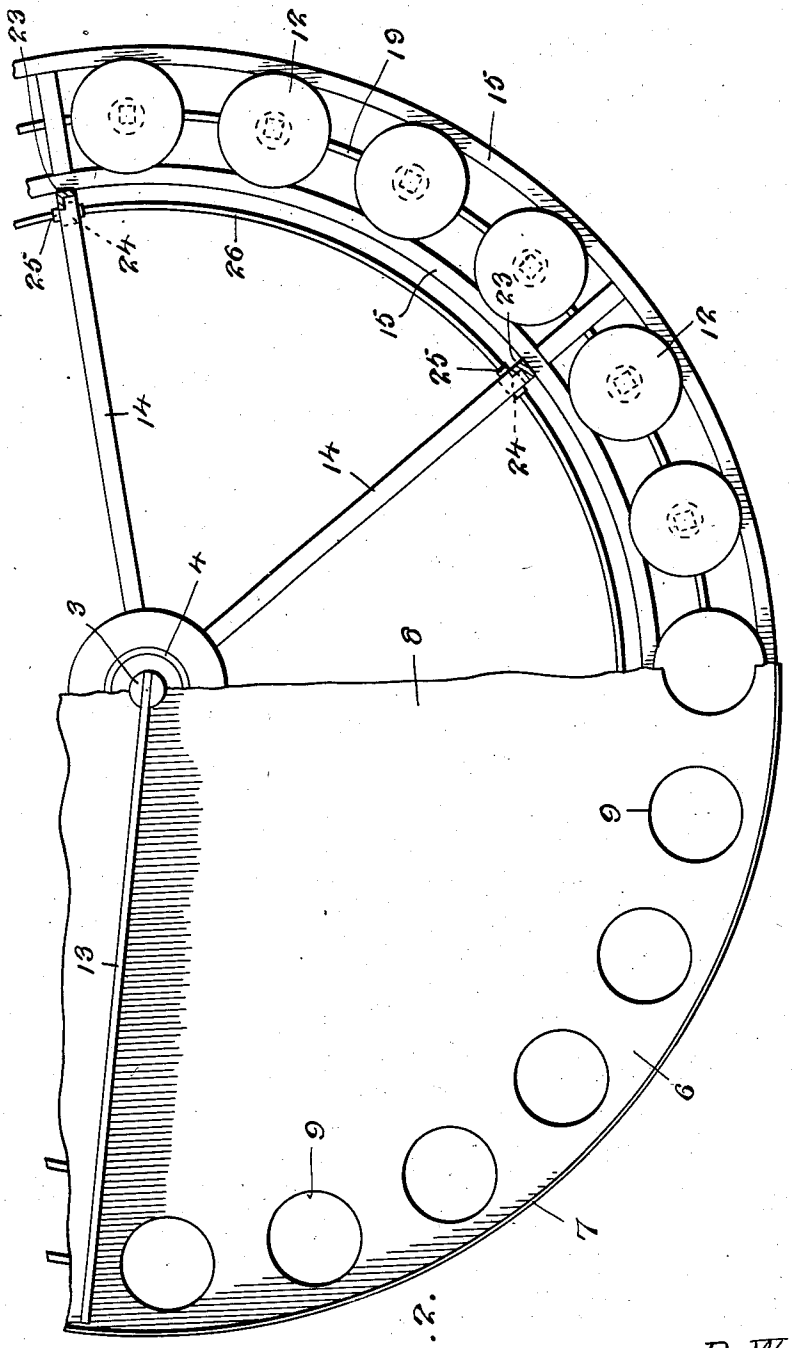


Fig. 2.

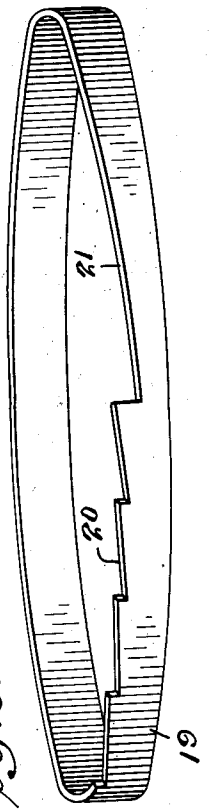


Fig. 3.

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Patented May 7, 1935

2,000,848

UNITED STATES PATENT OFFICE

2,000,848

COAL BAGGING MACHINE

Benjamin W. Kellett, New Orleans, La.

Application December 27, 1932, Serial No. 649,040

1 Claim. (Cl. 226—55)

This invention relates to bagging machines especially adapted for filling sacks and like containers with coal or other materials and has for the primary object, the provision of a device of the above stated character whereby a series of sacks may be supported and have delivered therein material and subjected to motion to cause settling of the material in the sacks to assure complete filling of the sacks and which operation may be easily and quickly carried out and whereby a large amount of material may be sacked in a comparatively short time.

With these and other objects in view this invention consists in certain novel features of construction, combination and arrangement of parts to be hereinafter more fully described and claimed.

For a complete understanding of my invention, reference is to be had to the following description and accompanying drawings, in which

Figure 1 is a vertical sectional view illustrating a bagging machine constructed in accordance with my invention.

Figure 2 is a fragmentary top plan view partly in section illustrating means for supporting sacks or like containers.

Figure 3 is a perspective view illustrating a track.

Referring in detail to the drawings, the numeral 1 indicates a supporting base having secured centrally thereof a mounting 2 in which is located the lower end of a vertically arranged non-rotatable shaft 3. Journaled on the shaft and also rotatably mounted on the mounting 2 is a drive sleeve 4 having secured thereto a drive gear 5 adapted to be rotated by any suitable power medium. An annular shaped distributing chamber or receptacle 6 is secured to the upper end of the sleeve 4 with the upper portion of the shaft 3 extending centrally therethrough. The receptacle 6 includes an annular upstanding wall 7 and an inclined bottom wall 8, the inclination of which is towards the annular wall and is provided with a series of spaced openings 9 adjacent to the annular wall 7 and formed integrally with the walls of the openings are depending filling necks or hoppers 10 adapted to have the mouths of sacks or like containers 11 positioned thereover. Each sack or container is supported by a movable pedestal 12. The receptacle 6 rotates with the sleeve 4 and receives coal or like material from any suitable supply and carried by the upper end of the shaft 3 is a sweep or board 13 contacting with the bottom of the receptacle so that the material within the receptacle during the rotation of the latter will be caused to pass through the openings 9 and necks 10 into the sacks or containers. Supporting bars 14 are secured to the sleeve 4 and extend radially therefrom and are connected by spaced annular members 15 between which operate the pedestals 12. The annular members 15 support guides 16 through which the stems 17 of the pedestals slide and which maintain the pedestals in a perpendicular position. The lower ends of the stems have journaled thereto rollers 18 which ride upon the track 19. The track 19 is suitably secured to the base 1 and a portion thereof is provided with a series of steps 20 of substantially saw-tooth shape so that during the travel of the rollers 18 about the track they will engage the steps and impart to the pedestals an up and down motion, causing a shaking of the sacks or containers, bringing about the settling of the material therein. The last step in the series of steps is considerable deeper so that when a roller engages therewith its respective pedestal will be lowered to an extent of disengaging the sack or container carried thereby from the neck or hopper 10 so that the operator may readily remove the sack or container and as the respective pedestal progresses it rides upon the inclined face 21, returning the pedestal from which the sack has been removed to a normal position so that another sack or container may be placed thereon and in engagement with the respective neck or hopper.

Upwardly and outwardly extending braces 22 are carried by the sleeve 4 and their outer ends are secured to vertical braces 23, the upper ends of which are attached to the receptacle 6 while the lower ends are mounted on the supporting bars 14.

The supporting bars 14 are provided with depending legs 24 carrying rollers 25 which travel upon a track 26 mounted on the base 1 inwardly of the track 19.

While I have shown and described the preferred embodiment of my invention, it will be understood that minor changes in construction, combination and arrangement of parts may be made without departing from the spirit and scope of my invention, as claimed.

Having described the invention, I claim:

A bagging machine comprising a base, a vertical shaft fixed to said base, a rotatable sleeve mounted on the shaft with the latter projecting above said sleeve, a hopper secured to the sleeve and having the shaft extending therein, discharge necks on said hopper to enter mouths of

sacks, a sweep fixed to the shaft and engaging walls of the hopper to direct material into the necks during rotation of the hopper with said sleeve, supporting bars fixed to the sleeve below the hopper and extending radially from said sleeve, spaced annular members connecting said bars, guides carried by the annular members and disposed below and between the latter, stems slidable in the guides and located between the annular members, rollers secured to said stems, plates carried by the stems and engaging the sacks, a notched track carried by the plates and having the rollers riding thereon, legs secured to said bars inwardly of the annular members and the stems, rollers for said legs, and a second track carried by the base inwardly of the first track and engaged by the rollers of said legs.

BENJAMIN W. KELLETT.