

1,324,474.

Patented Dec. 9, 1919.

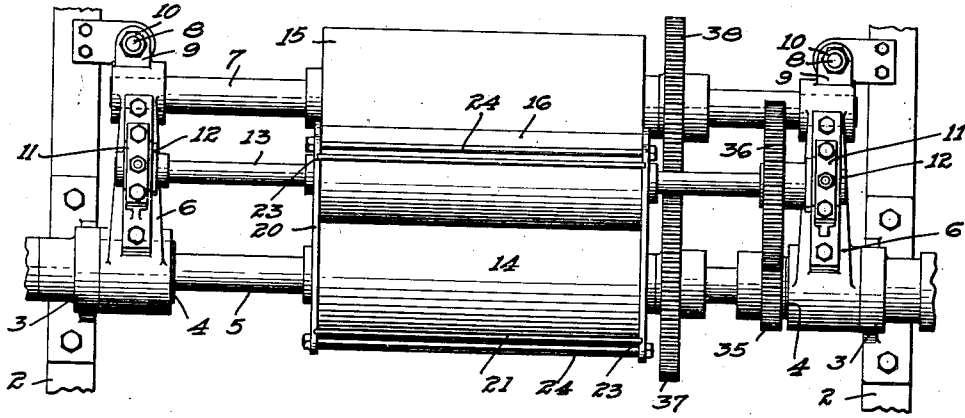


FIG. 1

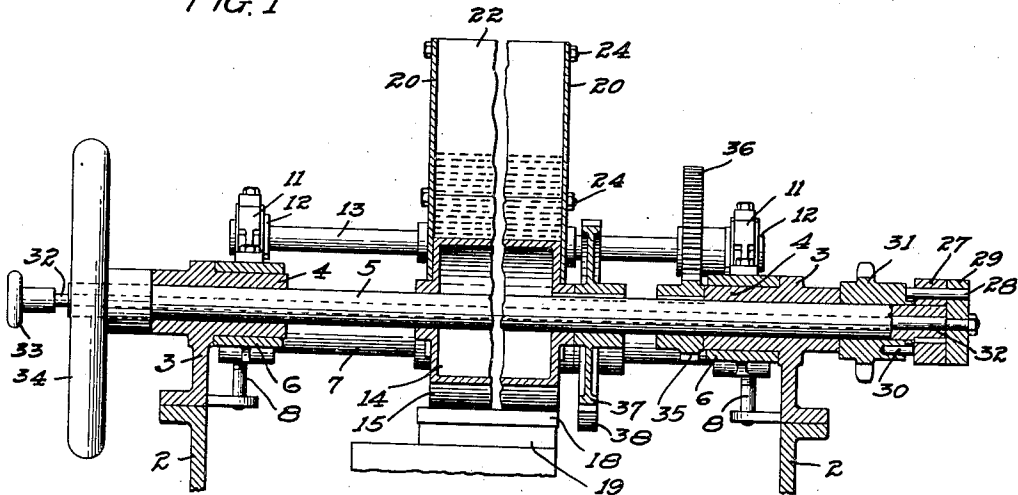


FIG. 2.

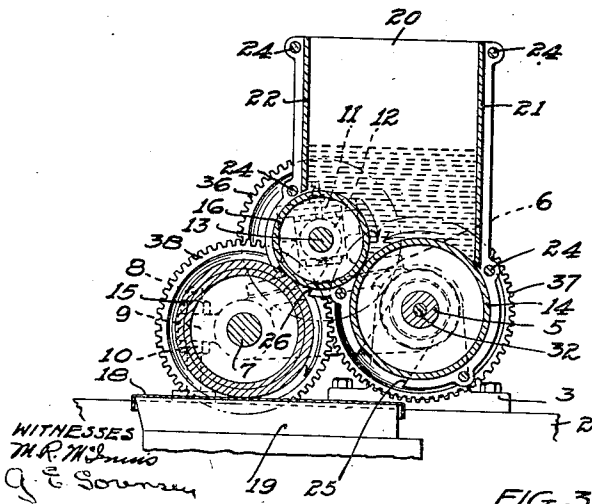


FIG. 3.

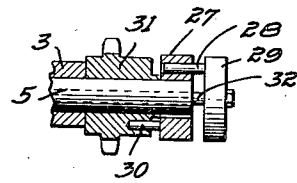


FIG. 4.

WITNESSES
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UNITED STATES PATENT OFFICE.

EDWIN GUSTAVE STAUDE, OF MINNEAPOLIS, MINNESOTA.

GLUE-POT.

1,324,474.

Specification of Letters Patent.

Patented Dec. 9, 1919.

Application filed March 29, 1918. Serial No. 225,420.

To all whom it may concern:

Be it known that I, EDWIN G. STAUDE, a citizen of the United States, resident of Minneapolis, county of Hennepin, State of Minnesota, have invented certain new and useful Improvements in Glue-Pots, of which the following is a specification.

The object of my invention is to provide a glue pot of simple construction and one which can be easily taken apart for cleaning purposes and which has no narrow or contracted passages or discharge ports in which the glue may dry and clog.

A further object is to provide improved means for mounting the glue pot to the end that the glue therein may be uniformly delivered to the rolls.

Other objects of the invention will appear from the following detailed description.

The invention consists generally in various constructions and combinations, all as hereinafter described and particularly pointed out in the claims.

In the accompanying drawings forming part of this specification,

Figure 1 is a plan view of a glue pot embodying my invention,

Fig. 2 is a sectional view of the same,

Fig. 3 is a cross sectional view,

Fig. 4 is a detail sectional view.

In the drawing, 2 represents a frame of any suitable construction upon which are mounted brackets 3, having bearings 4 for a hollow drive shaft 5. Pivoted on the bearings 4 are arms 6 provided with bearings for a shaft 7. The arms 6 are secured to the frame 2 of the machine by means of bolts 8 passing through lugs 9 in the arms and having lock-nuts 10 for adjustment of the lugs on the bolts. Secured to the arms 6 are brackets 11 provided with adjustable bearings 12 for a shaft 13.

The shafts 5, 7 and 13 are provided with rolls 14, 15 and 16. The rolls 14 and 16 serve as a bottom for the glue pot 17. The paste on the roll 16 is applied to the roll 15 which is preferably provided with a cover of rubber or other suitable material. The paste accumulated on the rubber cover of the roll 15 is applied to the surface of the box cover or other article coming in contact with this roll. In this instance I have shown the glue being applied to a box cover 18 on a form 19 passing underneath the glue roll 15. The roll 14 serves as a means for spreading and thinning the paste or glue of

the roll 16. The adjustment between the two rolls can be made in the brackets 11.

The glue pot is formed of ends 20 and the front and rear walls 21 and 22 fitting into grooves 23 in the ends and secured by means of rods 24. The ends have slots 25 and 26 to straddle the hubs of the rolls 14 and 16. The whole pot can be lifted up and cleaned and permit easy access to the rolls for cleaning. The paste or glue is comparatively thick and as the rolls 14 and 16 are working toward each other, there is no danger of any paste working down the side walls.

To drive the rolls, I secure to the shaft 5 a collar 27 and a pin 28 on a collar 29 has a sliding connection in the collar 27 and projects into the path of a pin 30 on the hub of the sprocket 31 that is driven through suitable chain, not shown. To release the pin 28 and stop the shaft 5 from revolving I provide within said shaft a rod 32 secured to the collar 29. The opposite end of the rod has a hand grip 33. Whenever said rod is pushed forward the pin 28 is pulled out and the shaft stopped. A suitable hand wheel 34 is provided on the shaft.

The power is transmitted from the shaft 5 to the shaft 13 through gears 35 and 36 and to the shaft 7 through gears 37 and 38. The rolls 14 and 15 travel at the same speed, but the roll 16 travels slower. The roll 14 acts as a scraper on the roll 16 and the roll 16, traveling slower than the roll 15 and in the opposite direction, will deposit paste on the surface of the roller 15 in a thin, even layer.

The glue pot, as shown in Fig. 2, has bearings on the ends of the rollers, the joint being sufficiently close to prevent the glue from working down between the walls of the pot and the roll, while permitting the roll to revolve and spread the glue thereon. The opening in the bottom of the pot being the full size thereof, it is evident that there will be no opportunity for the glue to dry and accumulate or clog therein. Whenever desired, the pot may be removed and the inner surface of the walls thereof and the surfaces of the rolls cleaned.

In various ways the details of construction may be modified and still be within the scope of my invention.

I claim as my invention:

1. The combination, with the glue rolls, of a glue pot adapted to contain an adhesive

and having an open bottom seated on said rolls, the peripheral surfaces of said rolls forming the bottom of said pot and receiving the adhesive therefrom.

5 2. The combination, with the rolls having hubs, of a pot having walls for straddling said hubs, said pot being open at the bottom and said rolls normally closing from the same and receiving the material there-
10 from, the opening in the bottom of said pot being equal to the full transverse area of the pot, whereby freedom of discharge of the glue is permitted.

3. The combination, with the glue-sup-
15 porting rolls, of a glue pot mounted thereon and comprising side and end walls bolted together for convenience of separation, said pot being removably mounted on the hubs of said rolls.

20 4. The combination, with the glue rolls, of a glue pot comprising side and end walls, said side walls having vertical grooves therein to receive the edges of said end walls, and bolts for securing said walls together, said
25 glue pot having an open bottom, the glue being supported in said pot upon the peripheral surfaces of said rolls.

5. The combination, with a pair of rolls revolving toward each other and means for

adjusting the space between said rolls, of a 30
receptacle for holding adhesives mounted above said rolls, said receptacle being adapted to permit the said whole body of adhesive to rest directly on said rolls by gravity to
allow the feeding of a non-flowing adhesive 35
between said rolls in a continuous sheet.

6. The combination, with the rolls mounted to revolve toward each other, of a bottomless receptacle adapted to contain an adhesive substance and supported above said 40
rolls, the peripheries of said rolls closing the open bottom of said receptacle and forming a support for the adhesive material in said receptacle, the revolution of said rolls feeding the adhesive between them. 45

7. The combination, with a pair of rolls revolving toward each other and means for adjusting the space between said rolls, of a receptacle for holding adhesives mounted
above said rolls, said receptacle being adapted 50
to permit the said adhesive to rest directly on said rolls by gravity to allow the feeding of non-flowing adhesive between said rolls in a continuous sheet.

In witness whereof, I have hereunto set 55
my hand this 14th day of March, 1918.

EDWIN GUSTAVE STAUDE.