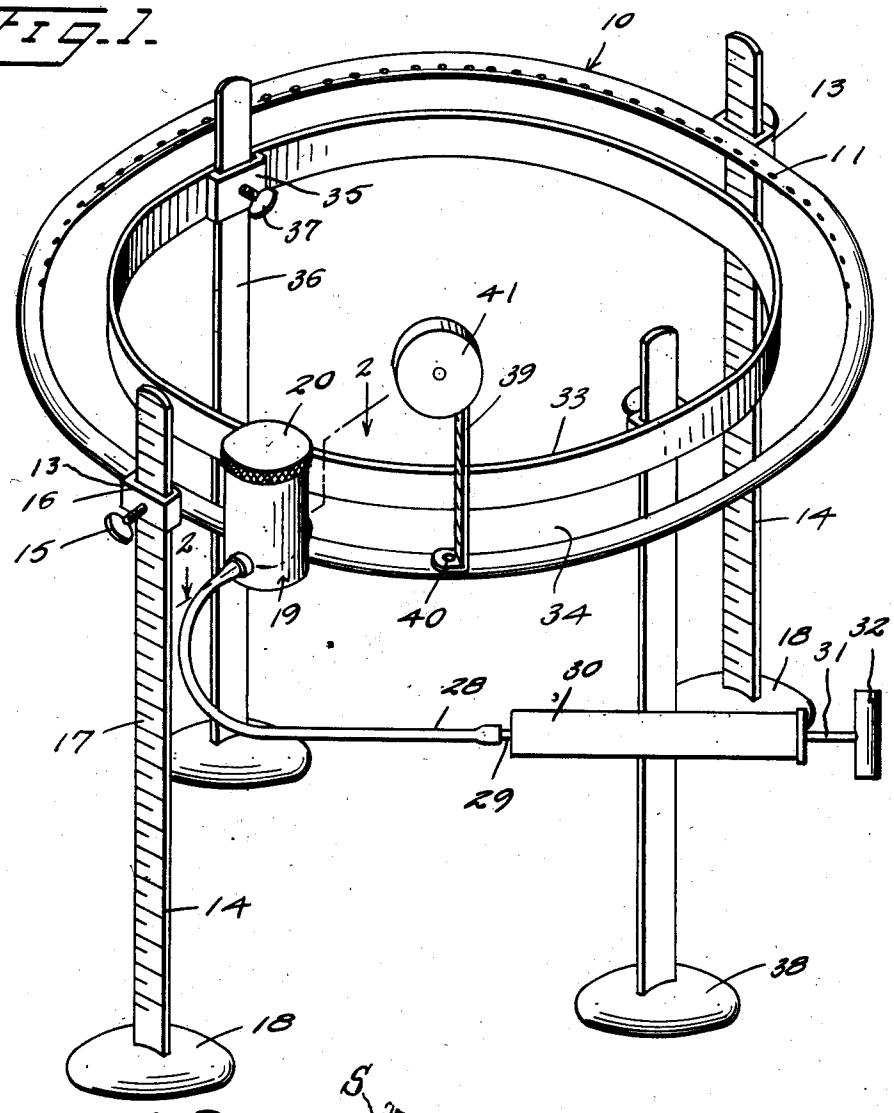
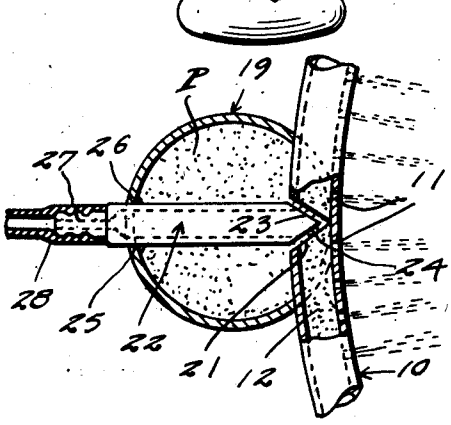
Oct. 20, 1942. P. J. M. SMITH 2,299,659

SKIRT MARKING APPARATUS

Filed July 16, 1941

Fig. 1.





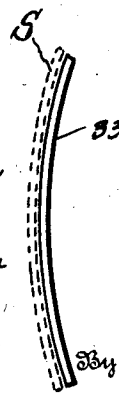


Fig. 2.

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SKIRT MARKING APPARATUS

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Application July 16, 1941, Serial No. 402,685

2 Claims. (Cl. 33—9)

This invention relates to skirt marking devices.

An object of this invention is to provide a vertically adjustable skirt marking device which is adapted to eject a circular marking on the lower part of the skirt at a predetermined height from the floor or other plane surface.

Another object of this invention is to provide, in a device of this kind, an improved powder distributor for evenly distributing the marking powder about the circular marking element.

A further object of this invention is to provide a marker of this kind which is operable by a hand operated pump.

A further object of this invention is to provide in combination an outer skirt marking ring, means for ejecting powder from the ring, and an inner steadying ring for holding the skirt closely adjacent the outer marking ring.

A further object of this invention is to provide in combination, a skirt marking apparatus and a measuring tape carried by and extensible from the marking apparatus whereby the skirt or dress length may be quickly determined.

A further object of this invention is to provide an improved distributing means for the marking powder which is so constructed as to provide for the agitation of the powder in the powder reservoir while at the same time forcing powder from the reservoir into the marking ring.

Embodying the aims aforesaid, and others which may hereinafter appear, the invention consists of the novel construction, combination and arrangement of parts, as will be more specifically described and illustrated in the accompanying drawing, wherein are shown several embodiments of the invention, but it is to be understood that changes, variations and modifications may be resorted to which fall within the scope of the invention, as claimed.

In the drawing:

Figure 1 is a perspective view of a skirt marking device constructed according to an embodiment of this invention; and

Figure 2 is a fragmentary sectional view, taken on the line 2—2 of Figure 1.

Referring to the drawing the numeral 10 designates generally an annulus or ring which is of hollow construction, as shown in Figure 2 and which is formed on the inner side thereof with a plurality of spaced apart openings 11. The interior 12 of the annulus 10 constitutes a powder distributing chamber for distributing powder to the entire inner surface of the annulus 10 for discharge through the inner openings 11.

The annulus 10 is provided at diametrically opposed sides thereof with a pair of looped guide members 13 within which vertically disposed supporting members 14 are adapted to adjustably engage. The supporting members 14 are secured in adjusted position within the guide members 13 by means of thumb screws 15 or the like which are threaded through the outer side wall 16 of each guide member 13. The vertically disposed supporting members or standards 14 are provided on one or more faces thereof, with graduations 17 so that the exact height of the annulus 10, from a floor or other plane surface, may be accurately determined. Each supporting member or standard 14 is provided at the lower end thereof with a base member 18 which may be fixed or otherwise secured to the lower end of a supporting member 14.

A substantially cylindrical powder reservoir 19 is fixed at one side thereof to the annulus 10 and has the longitudinal axis thereof disposed in parallel relation with the axial center of the annulus 10. The reservoir 19 is provided with a flanged cover 20 and the annulus 10 is formed with a V-shaped opening 21 which communicates the interior of the annulus 10 with the interior of the reservoir 19.

An air nozzle structure 22 is mounted in the lower portion of the reservoir 19 and has a V-shaped forward end 23 disposed loosely within the cutout or opening 21 so as to thereby form an air space 24 between the marginal portions of the nozzle 23 and the V-shaped opening 21. The powder P within the reservoir 19, is adapted to be forced or drawn into the annulus 10 by the ejection of air from the forward end 23 of the nozzle 22. By providing the V-shaped forward end 23 on the nozzle 22 the air being ejected from the nozzle will readily move in opposite directions within the chamber 12 so as to thereby evenly distribute the powder throughout the chamber 12. The nozzle 22 is extended through an opening 25 formed in the wall of the reservoir 19 and may be welded or otherwise fixed, as at 26, in the opening 25. The outer projecting end of the nozzle 22 is formed with a ribbed extension 27 on which a flexible hose 28 is adapted to engage. The opposite end of the hose 28 may be mounted on a nipple or coupling member 29 carried by an air pump or pressure member 30. The air pump or pressure member 30 is a conventional air pump having a plunger rod 31 to which a handle 32 is connected so that reciprocation of the plunger by operation of the handle 32 will force air into the reservoir

19. This air, under pressure, will force the powder out of the annulus 10 in a horizontal plane against the outer side of a skirt engaging within the inner circle of the annulus 10. The skirt S is shown in dotted lines in Figure 2.

In order to provide a means whereby the skirt S may be steadied with respect to the annulus 10, I have provided an inner ring or annulus 33, which is of a diameter substantially smaller than the diameter of the annulus 10 so as to form a space 34 between the annulus 10 and the annulus 33. The annulus 33 is provided, on the inner side thereof, with a pair of diametrically opposed U-shaped guide members 35 which may be welded or otherwise fixed to the inner side of the annulus 33 and a pair of vertically disposed standards or supporting members 36 are adapted to engage in the guide members 35. The supporting members or standards 36 may be secured relative to the guides 35 by thumb screws 37 which engage through the guides 35. The lower end of each standard or supporting member 36 is fixed to a base member 38 which may be of suitable construction and, in the present instance, is shown in the form of an inverted cup-shaped body.

In order to provide a means whereby the length of a skirt or dress may be readily determined from the circular marking which is formed by the powder discharged from the annulus 10, I have provided a tape line 39 which has one end fixed, as at 40, to the upper side of the annulus 10. The tape line 39 may be of metal construction which is transversely arcuate so that when the tape 39 is pulled out from the annular housing 41 the line 39 will stand up vertical and will substantially support the housing 41. In this manner the length of the skirt from the marking may be easily and readily determined.

In the use and operation of this device a powder which is used for marking the skirt may be placed in the reservoir 19. The person with the skirt is adapted to stand within the circle of the annulus 10 and the inner annulus 33 is placed on the inside of the skirt so as to hold the skirt in the desired spaced relation with respect to the annulus 10. The pump 30 may then be operated so as to force air through the nozzle 22 and the air ejected from the nozzle 22 will be forced laterally into the chamber 12 of the annulus 10 and finally the powder and air in the chamber 12 will be ejected through the discharge openings 11 against the exterior of the skirt. The annulus 10, in operative position, will be in a horizontal position and by discharging the powder which may be of any suitable color, against the exterior of the skirt an even marking will be formed on the skirt.

The correct height of the annulus 10 may be regulated by means of the graduated supporting members 14. When the height has been determined, the annulus 10 may be fixed in its adjusted position, by the thumb screws 15.

What I claim is:

1. A skirt marking apparatus comprising a hollow annulus formed with spaced openings on the inner side thereof, adjustable supporting means for said annulus, said annulus having a V-shaped intake opening in the outer side thereof, a powder reservoir fixed to said annulus and communicating with said intake opening, a nozzle fixed in said reservoir and formed with a V-shaped jet end disposed in confronting and spaced relation with respect to said intake opening, and means connecting said nozzle to a source of air pressure.

2. A skirt marking apparatus comprising a hollow annulus formed with spaced openings on the inner side thereof, adjustable supporting means for said annulus, said annulus having a V-shaped intake opening in the outer side thereof, a powder reservoir fixed on one side adjacent the bottom edge thereof to said annulus and communicating with said intake opening, a nozzle fixed in said reservoir and formed with a V jet end disposed in confronting and spaced relation with respect to said intake opening, and means connecting said nozzle to a source of air.

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