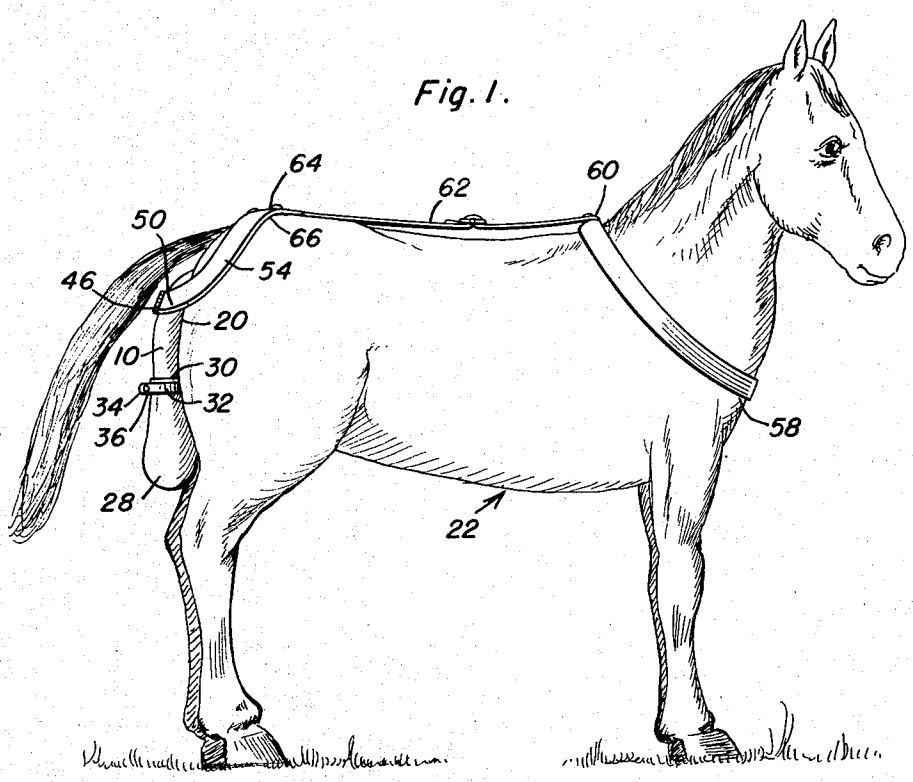
Aug. 22, 1950 A. L. CRUISE 2,519,743

ADJUSTABLE PROTECTOR CAP

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Fig. 1.



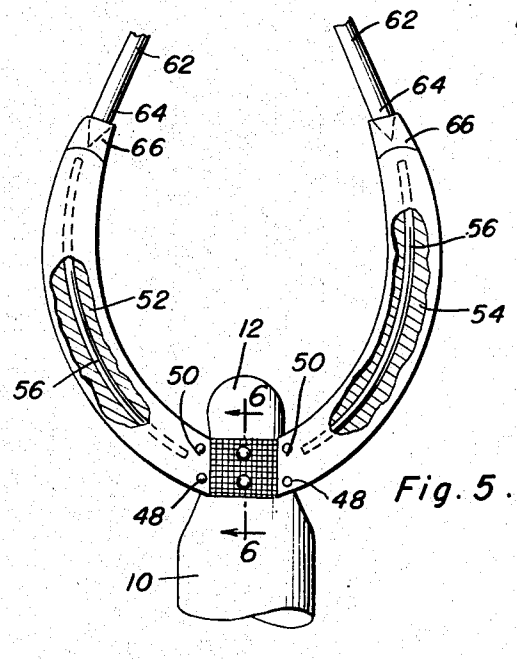
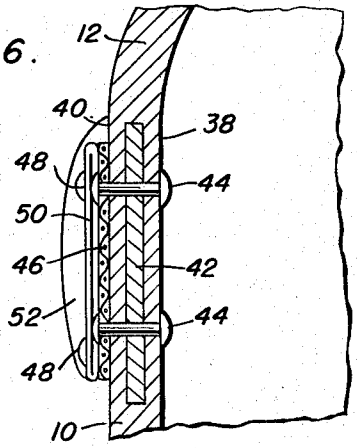


Fig. 5.

Fig. 6.



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Fig. 2.

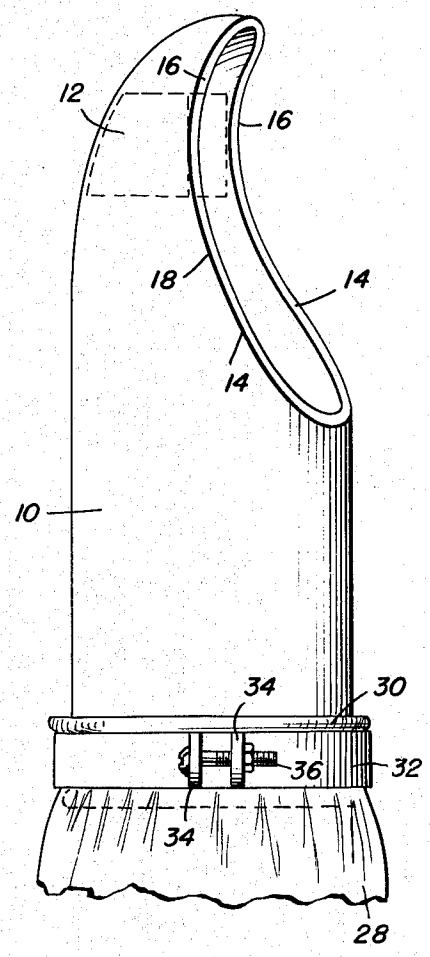
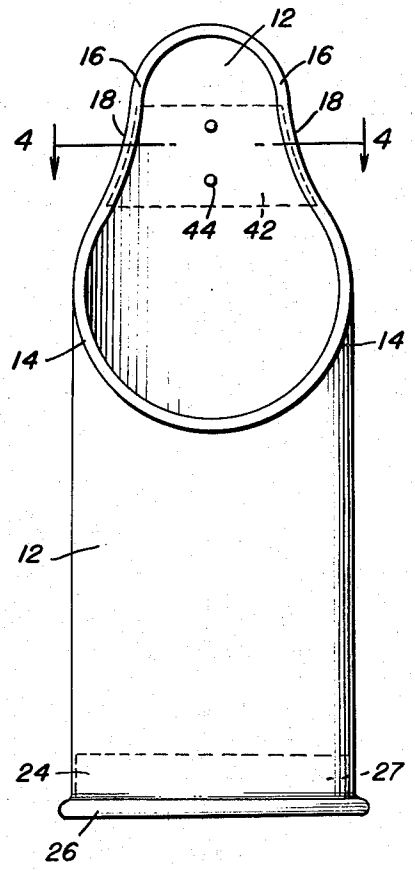


Fig. 3.



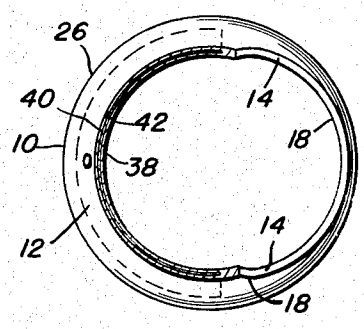


Fig. 4.

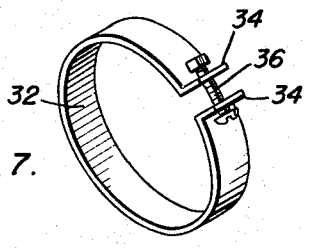


Fig. 7.

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UNITED STATES PATENT OFFICE

2,519,743

ADJUSTABLE PROTECTOR CAP

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Application December 29, 1947, Serial No. 794,224

11 Claims. (Cl. 119—95)

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This invention relates to new and useful improvements in protector caps and the primary object of the present invention is to provide an adjustable urinal bag support for application relative to a pregnant mare or the like for receiving the urine of the same which is employed for manufacturing hormones.

Another important object of the present invention is to provide a protector cap including novel and improved means for conveniently adjusting the same in a comfortable position relative to a mare.

Another object of the present invention is to provide a urinal receptacle for pregnant mares including a supporting harness so designed as to comfortably embrace the hind portion of a mare in a convenient manner.

A still further aim of the present invention is to provide an adjustable urinal bag support for pregnant mares that is simple and practical in construction, strong and reliable in use, neat and attractive in appearance, small and compact in structure, relatively inexpensive to manufacture, and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a side elevational view of a mare, showing the present invention applied thereto;

Figure 2 is an elevational view of the present invention, the harness removed therefrom, and with parts of the flexible bag broken away and shown in part;

Figure 3 is a front elevational view of the body element used in conjunction with the present invention;

Figure 4 is a transverse horizontal sectional view taken substantially upon the plane of section line 4—4 of Figure 3;

Figure 5 is a fragmentary rear elevational view of the present invention, and showing the harness support applied thereto, with parts broken away and shown in section;

Figure 6 is an enlarged fragmentary longitudinal vertical sectional view taken substantially on the plane of section line 6—6 of Figure 5; and,

Figure 7 is a perspective view of the clamping ring used in conjunction with the present invention.

Referring now to the drawings in detail, where-

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in for the purpose of illustration, there is disclosed a preferred embodiment of the present invention, the numeral 10 represents a sleeve-like body of preferably heavy rubber material, having a reduced and rounded upper end portion 12. The body 10 and end portion 12 are arcuately notched to provide arcuate, inwardly and forwardly inclined edges 14 in the body 10, and arcuate outwardly and forwardly inclined edges 16 in the reduced rounded portion 12 that communicate with edges 14. These edges 14 and 16 are provided with protective beadings or rounded extremities 18 that facilitate the same to comfortably engage the hind portion 20 of a mare 22. The lower end 24 of the body 10 is provided with an annular beading or retaining shoulder 26 and is preferably provided with a reinforcing strip 27 interposed between the inner and outer peripheries of the body adjacent its lower end.

The numeral 28 represents a flexible bag having a mouth portion 30 that engages the lower end 24 of the body 10. A split ring 32 frictionally embraces the mouth portion 30 to retain the same against the outer periphery of the body 10. This ring 32 has outwardly turned ears 34 that adjustably engage a fastener 36 that is adjustable for selectively tightening the ring about the body 10 and the mouth portion of the bag. Obviously, the retaining shoulder 26 will prevent outward movement of the ring upon the body 10.

Interposed between the inner periphery 38 and the outer periphery 40 of the reduced rounded portion 12, and opposing the arcuate notch in said portion 12, is an arcuate reinforcing and attaching strip 42 that is rigidly secured by rivets or the like 44 to a substantially rectangular screen plate 46. The opposite side edges of the plate 46 are rigidly secured by rivets or the like 48, to the flattened inner ends 50 of a pair of preferably rubber arcuate support arms or harness members 52 and 54 that are provided with preferably metallic or wire cores 56 which are bendable to retain the said support arms in a selected arcuately disposed position for the adjustment of the present protective cap relative to the urinal discharge vent of a pregnant mare. It is preferred that the outer surfaces of the support arms 52 and 54 be rounded so as to comfortably bear against the hind portion of the mare when the same is applied in position relative to the said mare.

In practical use of the device, a suitable neck collar 58 is first applied about the mare's neck and rigidly supports the forward end 60 of a

pair of flexible adjustable support straps 62, the rear ends 64 of which are fixed to the free outer ends 66 of the support arms 52 and 54.

It should be noted that the strip 42 is preferably molded with the body 10 and portion 12, and that the same is so positioned as to permit the arms 52 and 54 to exert a direct pressure on the portion 12, so that the arcuate opening in the body 10 and portion 12 will comfortably oppose the urinal vent of the mare and will not receive manure discharged from the mare. Such a construction will permit the urinal to be collected without the same being harmfully affected by contacting the manure. Obviously, by adjusting the straps 62 the present protector cap may be comfortably applied to mares of various sizes.

In view of the foregoing description taken in conjunction with the accompanying drawings it is believed that a clear understanding of the construction, operation and advantages of the device will be quite apparent to those skilled in this art. A more detailed description is accordingly deemed unnecessary.

It is to be understood, however, that even though there is herein shown and described a preferred embodiment of the invention the same is susceptible to certain changes fully comprehended by the spirit of the invention as herein described and the scope of the appended claims.

Having described the invention what is claimed as new is:

1. A urinal receptacle comprising a sleeve-like relatively rigid, self-supporting body open at both ends, an arcuate edge at one end of said body for frictionally engaging the hind portion of a mare, a flexible receptacle detachably secured to the opposite end of said body and supported by and directly beneath said body, a supporting harness for said body, means for securing said harness to said body, and means for retaining said harness in engagement of the hind portion of a mare.

2. The combination of claim 1 wherein the arcuate edge of said body is provided with a resilient protective beading.

3. The combination of claim 1 wherein said last mentioned means includes a semi-flexible core carried by said harness.

4. A urinal receptacle comprising a sleeve-like relatively rigid, self-supporting body having a rounded and reduced upper end portion, an arcuate opening in the upper end portion of said body, an annular retaining shoulder at the lower end of said body, a receptacle detachably secured to the lower end of the body, a pair of arcuate support arms, means connecting said arms to each other, means for securing said connecting means to said body, and means for retaining said arms in an arcuately disposed position, said receptacle being supported solely by and directly beneath said body.

5. A device for collecting feces free urine from a female quadruped comprising a relatively rigid and self-supporting tubular member having a rounded upper end and an open lower end, an arcuate opening in said upper end adapted to completely cover the posterior opening of the urethral canal, means for supporting said member on the quadruped and a urine receptacle detachably mounted on the lower end of said member, the said receptacle being supported solely by said member and being disposed directly beneath said member.

6. A device for collecting feces free urine from a female quadruped comprising a substantially vertical relatively rigid, self-supporting sleeve like member having a discharge opening in one end, a flexible receptacle detachably associated with said opening for receiving the urine, a rounded reduced upper end on said member, a longitudinal arcuate opening in said upper end, the edge of said opening being adapted to enclose the urethral orifice, cushioning means associated with the edge of said opening, means for securely holding the edge of the opening in position on the quadruped, said receptacle being attached solely to said member and disposed directly beneath said member.

7. A device for collecting feces free urine from a female quadruped comprising a relatively rigid, self-supporting tubular member having a discharge opening, a rounded and reduced end on said member, an arcuate opening in said upper end, a cushioned edge for said opening, a receptacle associated with said discharge opening and detachably mounted on and supported solely by said member and means for securing said member to the hind portion of the quadruped so that the edge of the arcuate opening thereof completely encloses the urethral orifice of the quadruped.

8. In a device for collecting feces free urine from a female quadruped, a relatively rigid, self-supporting sleeve like body having an open lower end, an annular retaining shoulder at the lower end of the body, a reduced and rounded upper end on said body, a longitudinally extending arcuate opening in said upper end, a resilient protective beading on the edge of said opening, said body adapted to be supported in a substantially vertical position and said edge being adapted to engage on the hind portion of the quadruped and completely enclose the uretnral orifice when the body is supported in a vertical position at the hind portion of the quadruped, and a receptacle attached solely to said body and supported by and directly beneath said body.

9. A device for collecting feces free urine from a female quadruped comprising a body member having an opening adapted to cover the urethral orifice of the quadruped, a receptacle associated with said member, a pair of arcuate support arms carried by said member, resilient reinforcing means in said arms for frictionally positioning the arms on the hind quarters of the quadruped, an anchoring strip embedded in said member, and means securing said arms to said body and to said anchoring strip.

10. A device for collecting feces free urine from a female quadruped comprising a body member having an opening adapted to cover the urethral opening of the quadruped, a receptacle associated with said member, a pair of support arms, a reinforcing and attaching strip embedded within said member, means for attaching said arms to said strip, reinforcing means in said arms for frictionally holding the arms against the hind portion of the quadruped and a harness structure adjustably associated with said arms for engaging the fore portion of the quadruped.

11. A device for collecting feces free urine from a female quadruped comprising a body member having an opening for positioning over the urethral orifice of the quadruped, a pair of arcuate support arms, a reinforcing and attaching strip completely embedded in said member, means for connecting said arms, means for attaching said connecting means to the strip, resilient reinforcing means extending axially through said arms

for frictionally holding the arms and open portion of the member against the hind portion of the quadruped and a harness structure adjustably secured to said arms.

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REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
489,309	Jefferys	Jan. 3, 1893
718,915	Cooper	Jan. 20, 1903
881,753	Whitehouse	Mar. 10, 1908
2,472,186	Arnold	June 7, 1949

FOREIGN PATENTS

Number	Country	Date
17,514	Great Britain	Sept. 14, 1894