

C. GUISE.

SWIVEL.

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1,028,351.

Patented June 4, 1912.

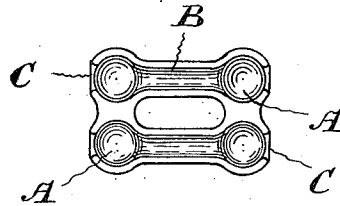


Fig. 1

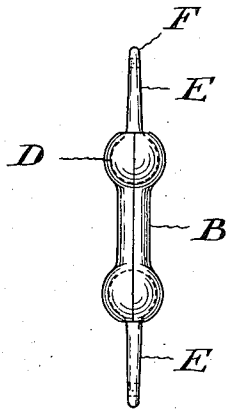


Fig. 2

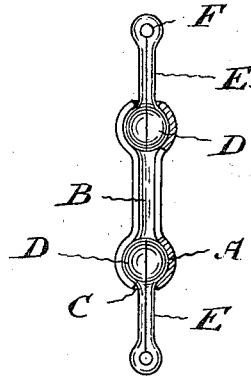


Fig. 3

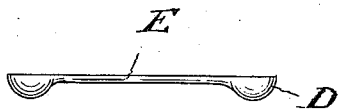


Fig. 4

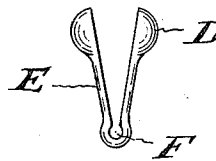


Fig. 5

WITNESSES:

H. G. McMillan
E. P. Hall.

INVENTOR.

Clifford Guise
BY *J. Edward Maybee*
ATTORNEY.

UNITED STATES PATENT OFFICE.

CLIFFORD GUISE, OF TORONTO, ONTARIO, CANADA.

SWIVEL.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CLIFFORD GUISE, of the city of Toronto, in the Province of Ontario, Canada, have invented certain new and useful Improvements in Swivels, of which the following is a specification.

My object is to devise a strong and easy working swivel which can be manufactured at a minimum expense and entirely by the use of dies.

The swivel is of the ball and socket type and I attain my object by forming the socket portion of the swivel from a blank in which longitudinal halves of the socket portion are stamped side by side and integrally connected at the adjacent edges. The ball portion has a stem and eye integral with the ball and is formed from a blank shaped as two hemispheres connected by a half round bar. By bending the bar in the middle the hemispheres may be brought together to form a ball, the parts of the half round bar coming together to form a round stem which at the bend is preferably shaped as an eye. The blank of the socket portion is bent up to shape to inclose the ball.

Figure 1 is a plan view of the blank from which the socket part of the swivel is formed. Fig. 2 is a side elevation of the complete swivel. Fig. 3 is a similar view at right angles to Fig. 2, showing the socket part of the swivel in section. Fig. 4 is a side elevation of the blank from which the ball portion of the swivel is formed. Fig. 5 is a similar view showing the ball portion of the swivel partly bent to shape.

In the drawings like letters of reference indicate corresponding parts in the different figures.

Referring to Fig. 1 which shows the blank from which the swivel portion of the socket is formed it will be seen that on each half of a central line I form halves of two ball sockets A connected by a half tubular portion B. The halves of the blank are integrally connected and preferably only adjacent the half sockets A. In the end of each half socket is formed a half C of the entrance opening for the stem of the ball portion of the swivel.

It will be noted that the blank as described is adapted to form a double swivel,

but a single swivel may be readily formed by omitting the half ball sockets at one end of the blank.

The ball portions of the swivel are formed from a blank such as shown in Figs 4 and 5, comprising two hemispheres D, connected by a bar E, which when folded on itself will form the stem of the ball portion. This blank is bent at the center of the bar E to form the eye F and to bring the parts of the bar together to form the stem of the ball portion, the hemispheres D coming together to form a complete ball, as shown in Fig. 3.

After the ball portions have been formed up as shown in Fig. 3 the blank shown in Fig. 1 is bent or stamped or spun around them, as shown in Figs. 2 and 3, the socket portion then having a substantially dumb bell shape.

The socket portion it will be seen is split through one side of each socket and completely through the shank, but the integral connection of the halves is ample to give the necessary strength. The ball portions it will be seen are each divided through the ball and through the stem as far as the eye F.

A swivel formed as described will satisfactorily attain the objects of my invention, as set out in the preamble to this specification, and is well adapted for use with fishing tackle or for any other purpose where a light, strong, neat and cheap swivel is desired.

What I claim as my invention is:—

1. In a swivel two ball portions each comprising a stem and a ball in combination with a dumb-bell shaped socket portion adapted to engage the two balls and formed of two longitudinal halves integrally connected at one side of each end.

2. A blank for forming the ball portion of a swivel comprising two hemispheres connected by a bar adapted to form a stem when bent in the middle to bring the hemispheres together to form a ball.

3. A blank for forming the socket portion of a swivel stamped to form side by side two half sockets integrally connected at one edge.

4. A blank for forming the socket portion of a swivel stamped to form, side by side, at

each end, two half sockets integrally connected at one edge and half tubes connecting the half sockets.

5 5. A socket portion for a swivel comprising a dumb-bell shaped shell with ball sockets at each end the shell being longitudinally divided at one side from end to end.

10 6. A socket portion for a swivel comprising a dumb-bell shaped shell with ball

sockets at each end, the shell being longitudinally divided at one side from end to end and longitudinally divided at the other side through the shank only.

Toronto this 17th day of March 1911.

CLIFFORD GUISE.

Signed in the presence of—

J. EDW. MAYBEE,

E. P. HALL.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."