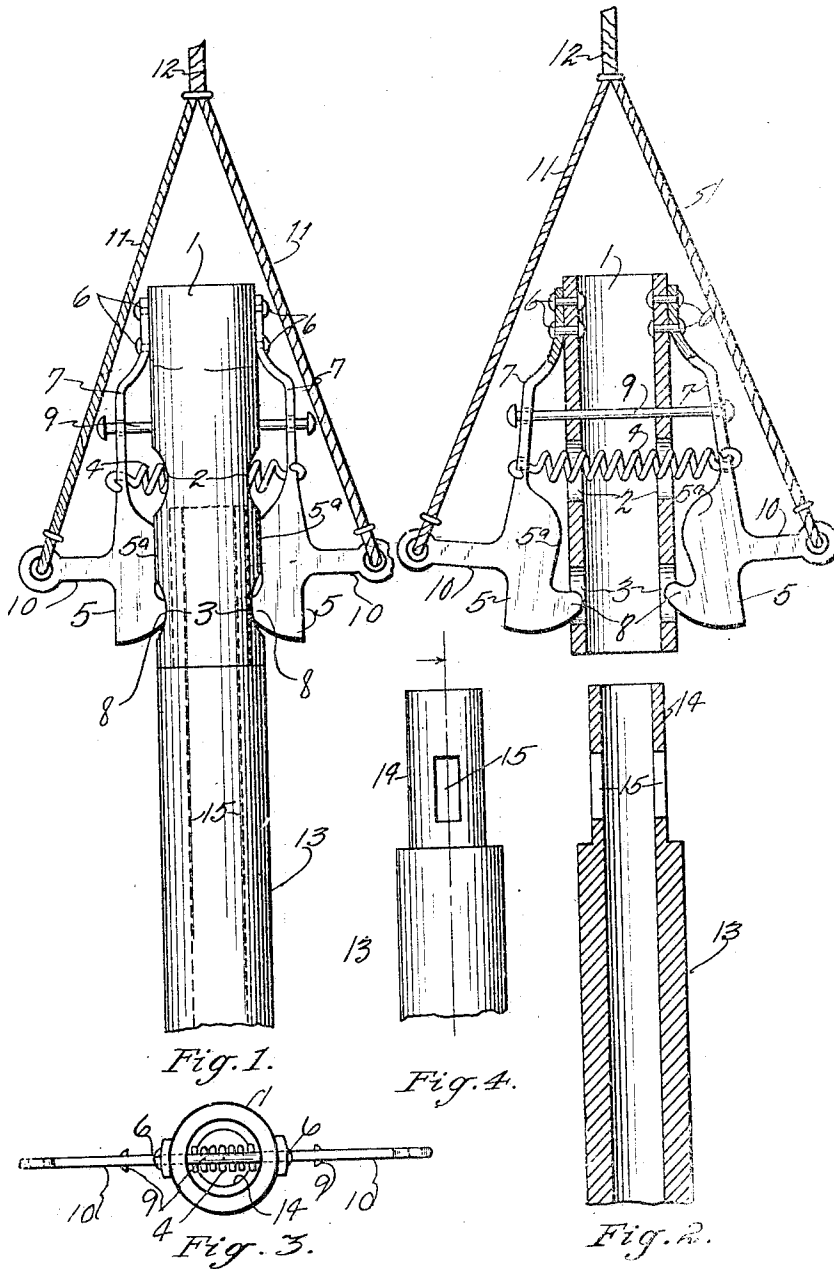


C. E. W. REINSORF.
SNAP COUPLING.
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1,284,455.

Patented Nov. 12, 1918.



Witnesses
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UNITED STATES PATENT OFFICE.

CARL EDWARD WILLIAM REINSDOFF, OF HUMBOLDT, SASKATCHEWAN, CANADA.

SNAP-COUPLING.

1,284,455.

Specification of Letters Patent.

Patented Nov. 12, 1918.

Application filed June 24, 1918. Serial No. 241,584.

To all whom it may concern:

Be it known that I, CARL EDWARD WILLIAM REINSDOFF, a citizen of Germany, residing at Humboldt, in the Province of Saskatchewan, in the Dominion of Canada, have invented certain new and useful Improvements in Snap-Couplings, of which the following is a specification.

This invention relates to improvements in snap couplings and its prime object is to provide a coupling in which the separable parts may be snapped into operative engagement, and disconnected by a sudden jerk of one of the parts. A further object is to provide a device of this type that is simple in construction and efficient in operation. With the foregoing and other objects in view the invention consists in the combination and arrangement of parts to be hereinafter fully described, pointed out in the appended claims and illustrated in the accompanying drawing which forms a part of this specification and in which—

Figure 1 is a view of my improved coupling in elevation.

Fig. 2 is a longitudinal sectional view through Fig. 1, uncoupled.

Fig. 3 is a top plan view of the device with the pull cord omitted.

Fig. 4 is a fragmentary view of one of the separable parts of the device.

Like reference characters denote corresponding parts throughout the several views.

The reference numeral 1 denotes an open ended cylindrical shell formed with the spaced perforations 2, 3, the perforations 2 receiving the transversely disposed contractile spring 4 which extends through and beyond the shell 1, the ends of said spring being secured to the angular jaws 5, 5 having bearing shoulders 5^a for engagement with the shell and which jaws each have one end secured by rivets 6 to the shell 1, the jaw shanks 7 being spaced away from the shell and the teeth 8 of said jaws being adapted for insertion into the shell perforations 3. The purpose of the spring 4 is to yieldingly draw the jaws toward each other and a tie bolt 9 extending transversely through the shell and engaging both jaws limits, in a positive manner, the relative movement of said jaws away from each other. Each jaw is formed with a handle or extension 10 in a suitable perforation in which one end of a cord 11 is secured, said cords 11 being

branches of a pull cord 12 by means of which relative movement of the jaws 5, 5 is effected.

A second open ended cylindrical shell 13 is formed with one reduced termination 14 wherein the alined perforations 15 are formed, the shell end 14 being adapted for insertion in one end of the shell 1 and the perforations 15 being adapted to receive the teeth 8 of the jaws 5 whereby the shells 1, 13 are secured together. One end of the shell 13 may be threaded for engagement with a pipe or the said shell 13 may be otherwise secured to an object and the cord 12 suitably secured to another object when it is desired to couple or secure the two objects together. The device may be used for a variety of purposes such as a support for hanging lamps or for lightweight objects generally. The coupling is instantly assembled by simply inserting the end 14 of shell 13 into shell 1 until the jaws 5 engage with the shell end perforations 15. To disengage the shells the operator may hold the shell 13 and give a sharp jerk upon the cord 12 when the teeth of the jaws will be snapped out of engagement with the shell 13 thus freeing the same.

What is claimed is:—

1. In a snap coupling, a shell formed with perforations, a pair of jaws secured to said shell and formed with teeth adapted for insertion in the perforated portions of said shell, means for yieldingly drawing said jaws toward said shell, a flexible element connected to said jaws whereby their toothed ends may be drawn outwardly from said shell, and a second shell adapted for telescopic engagement with the first named shell, said second shell being perforated to receive the teeth of said jaws.

2. In a snap coupling, a shell formed with perforations, a pair of jaws secured to said shell and formed with teeth adapted for insertion in the perforated portions of said shell, means for yieldingly drawing said jaws toward said shell, means for positively limiting the outward movement of said jaws with relation to said shell, a flexible element connected to said jaws whereby their toothed ends may be drawn outwardly from said shell, and a second shell adapted for telescopic engagement with the first named shell, said second shell being perforated to receive the teeth of said jaws.

3. In a snap coupling, a shell formed with two pair of spaced perforations, the mem-

bers of each pair of perforations being alined with each other, a pair of jaws secured to said shell and formed with teeth adapted for insertion in one pair of shell perforations, a
5 spring extending through the other pair of perforations and having its ends engaging said jaws to yieldingly draw them together, means for positively limiting the outward movement of said jaws with relation to said
10 shell, a flexible element connected to said jaws whereby their toothed ends may be drawn outwardly from said shell, and a second shell adapted for telescopic engagement with the first named shell, said second shell
15 being formed with alined perforations to receive the teeth of said jaws.

4. In a snap coupling, a shell formed with two pair of spaced perforations, the members of each pair of perforations being alined
20 with each other, a pair of jaws secured to said shell and formed with teeth adapted for

insertion in one pair of shell perforations, a spring extending through the other pair of perforations and having its ends engaging said jaws to yieldingly draw them together, a tie rod extending through said shell and connected to said jaws, a flexible element connected to said jaws whereby their toothed ends may be drawn outwardly from said shell, and a second shell adapted for telescopic engagement with the first named shell, said second shell being formed with alined perforations to receive the teeth of said jaws.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two subscribing witnesses.

CARL EDWARD WILLIAM REINSORF.

Witnesses:

REV. L. F. BOLLEFER,
F. H. BENCE.