

# PATENT SPECIFICATION

643,310



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## PROVISIONAL SPECIFICATION

### Improvements in or relating to Cattle Yokes

We, THE METAL AGENCIES COMPANY, LIMITED, a Company organised according to the laws of Great Britain and Northern Ireland, of Colston Street, Bristol, 1, and JOHN ERBY, of 37, Monk Road, Bishopston, Bristol, 7, a British Subject, do hereby declare the nature of this invention to be as follows:—

This invention relates to cattle yokes and the object of the invention is to provide an improved and quick-release locking device on the yoke.

According to this invention we provide a socket member and a co-operating spigot member, the socket member having slots therein to receive the ends of a separate retaining member adapted to move in the said slot, said retaining member being adapted to engage a recess in the spigot member whereby the spigot and socket members are locked together until the retaining member is positively removed from the said recess. The locking of the spigot and socket members is automatic in that the front of the spigot member is formed as a latch with an inclined surface. When the spigot member enters the socket member the retaining member rides up the said inclined surface and drops automatically into the recess in the spigot member and is retained by gravity in that position, until positively lifted out of engagement.

One form of the invention is illustrated in the accompanying drawings wherein:—

Fig. 1 is an elevation of the cow yoke;

Fig. 2 is a plan view of Fig. 1;

Fig. 3 is a sectional elevation of the locking device taken in line III—III of Fig. 2; and

Fig. 4 is a detail view of the retaining member.

Referring to the drawings, the yoke comprises a fixed tubular part 2 and a movable tubular part 3 pivoted thereto at 4. The fixed part 2 is hung on chains 5 to rigid members above and below so as to allow the cow some degree of sideways movement, when the yoke is in position. The upper end of the member 3 is provided with a spigot member 6. The dot and dash lines in Fig. 1 indicate the yoke in open position. The front of the spigot member 6 is formed as a latch with an inclined surface and recess 8. In the closed position the front of the spigot member engages a socket member 9 located at the free end of the member 2. The side walls of the member 9 are each provided with a slot 10 in which the cross bar 11 of a retaining member moves. Discs 12 are provided at each end of the retaining member which prevent the bar 11 moving sideways out of the slots and which serve as handles or finger grips to the retaining member.

In use, when it is desired to lock the two parts 2 and 3, the tubular bar 3 is pushed towards the part 2 whereupon the front of the spigot member 6 enters the socket member 9. When the nose of the spigot comes into contact with the bar 11 it lifts the said bar 11 which rides on the inclined surface 7 and then drops into the recess 8, the said movement taking place within the slots 10. When the bar 11 is in the recess 8 the parts 6 and 9 are firmly held together and cannot be disengaged until the bar 11 is removed manually by lifting the discs 12 until the bar 11 is clear of the recess 8.

Dated this 20th day of July, 1948.

MEWBURN, ELLIS & CO.,  
70 & 72, Chancery Lane, London,  
W.C.2.

[Price 2/-]

Price 4s 6d

## COMPLETE SPECIFICATION

## Improvements in or relating to Cattle Yokes

We, THE METAL AGENCIES COMPANY, LIMITED, a Company organised according to the laws of Great Britain and Northern Ireland, of Colston Street, Bristol, 1, and  
 5 JOHN ERBY, of 37, Monk Road, Bishopston, Bristol, 7, a British Subject, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to cattle yokes and the object of the invention is to provide an improved and quick-release locking device on the yoke.

According to this invention, we provide a cattle yoke comprising two members hinged together at one end and adapted to be removably secured together at the  
 20 other end by means of a socket member and a co-operating spigot member, the socket member having vertical slots to receive the ends of a separate horizontal bar which forms a retaining member adapted to move in the slots, the said  
 25 horizontal bar being adapted to engage a recess in the spigot member whereby the spigot and socket members are locked together, the said horizontal bar having a handle or finger grip attached to each end which prevents lateral movement of the bar in the slots. The locking of the  
 30 spigot and socket members is automatic in that the front of the spigot member is formed as a latch with an inclined surface. When the spigot member enters the socket member the retaining member rides up the said inclined surface and drops automatically into the recess in the spigot  
 35 member and is retained by gravity in that position until positively lifted out of engagement.

One form of the invention is illustrated in the drawings accompanying the Provisional Specification:—

Fig. 1 is an elevation of the cow yoke;

Fig. 2 is a plan view of Fig. 1;

Fig. 3 is a sectional elevation of the locking device taken in line III—III of  
 50 Fig. 2, and

Fig. 4 is a detail view of the retaining member, and in the drawings filed herewith, wherein

Fig. 1 is an elevation of a modified form  
 55 of cow yoke;

Fig. 2 is a plan view of Fig. 1 taken on line 2—2 of Fig. 1.

Fig. 3 is a sectional elevation of the locking device, and

60 Fig. 4 is a section taken on line 4—4 of Fig. 3.

Referring to the drawings filed with the Provisional Specification, the yoke comprises a fixed tubular part 2 and a  
 65 movable tubular part 3 pivoted thereto at 4. The fixed part 2 is hung on chains 5 to rigid members above and below so as to allow the cow some degree of sideways movement when the yoke is in position. The upper end of the member 3 is provided with a spigot member 6. The dot  
 70 and dash lines in Fig. 1 indicate the yoke in open position. The front of the spigot member 6 is formed as a latch with an inclined surface and recess 8. In the  
 75 closed position the front of the spigot member engages a socket member 9 located at the free end of the member 2. The side walls of the member 9 are each provided with a slot 10 in which the cross  
 80 bar 11 of a retaining member moves. Discs 12 are provided at each end of the retaining member which prevent the bar 11 moving sideways out of the slots and which serve as handles or finger grips to  
 85 the retaining member.

In use, when it is desired to lock the two parts 2 and 3, the tubular bar 3 is pushed towards the part 2 whereupon the front of the spigot member 6 enters the  
 90 socket member 9. When the nose of the spigot comes into contact with the bar 11 it lifts the said bar 11 which rides on the inclined surface 7 and then drops into the recess 8, the said movement taking place  
 95 within the slots 10. When the bar 11 is in the recess 8 the parts 6 and 9 are firmly held together and cannot be disengaged until the bar 11 is removed manually by lifting the discs 12 until the bar 11 is  
 100 clear of the recess 8.

In the modification shown in the drawings filed herewith the shape of the cow yoke is modified, the two arms 2 and 3 being of substantially the same shape.  
 105 The spigot member 6 is slightly more blunt but acts in a similar manner and the cavity in the socket member has substantially square sides. In other respects the cow yoke shown in the drawings filed  
 110 herewith is the same as that shown in the drawings filed with the Provisional Specification.

Having now particularly described and ascertained the nature of our said invention  
 115 and in what manner the same is to be performed, we declare that what we claim is:—

1. Cattle yoke comprising two members hinged together at one end and adapted to be removably secured together at the other end by means of a socket member

and a co-operating spigot member, the socket member having vertical slots to receive the ends of a separate horizontal bar which forms a retaining member adapted to move in the slots, the said horizontal bar being adapted to engage a recess in the spigot member whereby the spigot and socket members are locked together, the said horizontal bar having a handle or finger grip attached to each end which prevents lateral movement of the bar in the slots.

2. Cattle yoke according to Claim 1 wherein the handles at the ends of the horizontal bar comprise discs.

3. Cattle yoke according to Claim 1 or

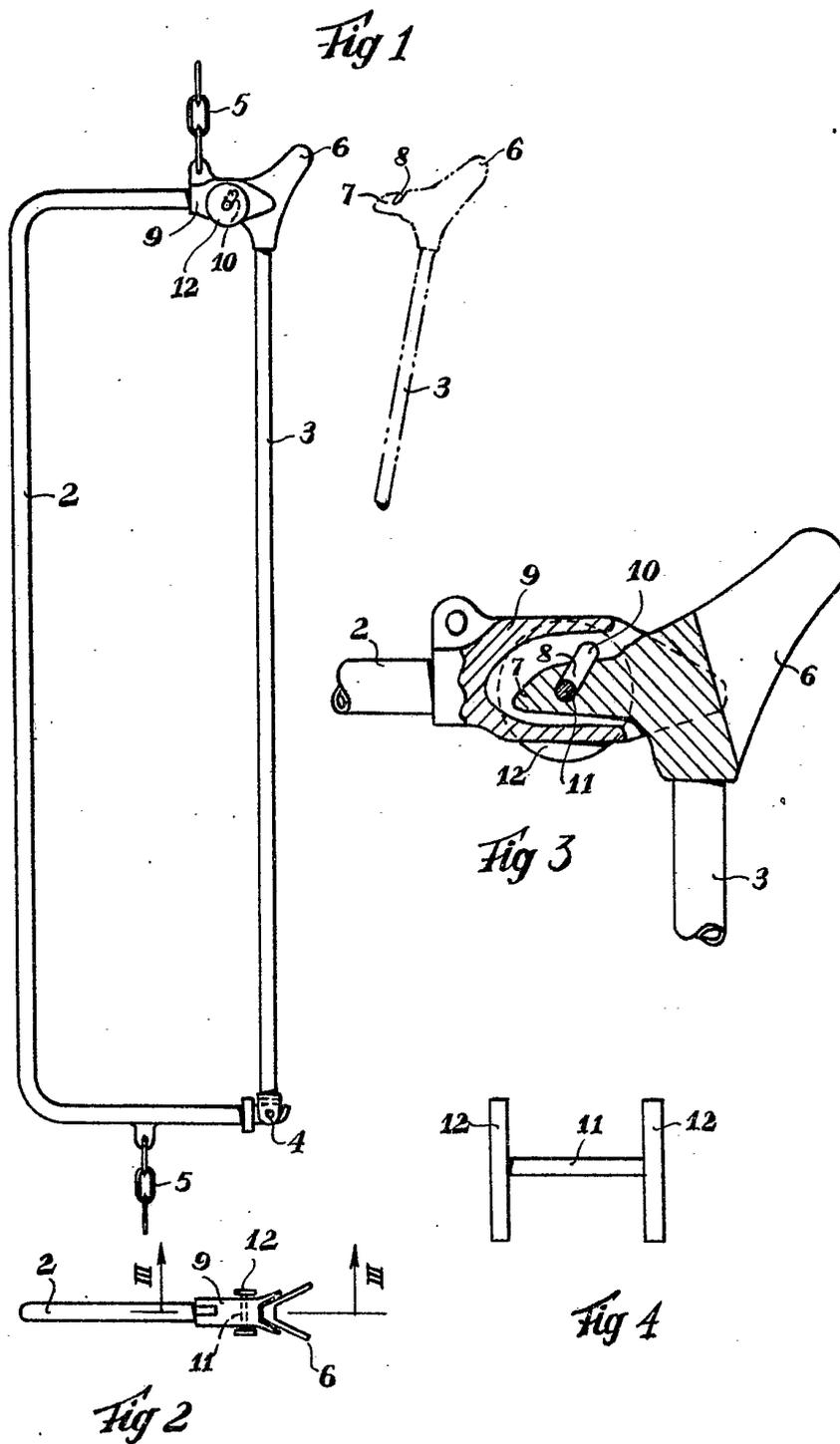
2 wherein the front of the spigot member is formed as a latch with an inclined surface whereby the spigot and socket members are automatically locked together. 20

4. Cattle yoke, constructed, arranged and adapted to operate, substantially as described with reference to the drawings accompanying the Provisional Specification or the drawings accompanying the Complete Specification. 25

Dated this 30th day of June, 1949.  
MEWBURN, ELLIS & CO.,  
70 & 72, Chancery Lane, London,  
W.C.2,  
Chartered Patent Agents,

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[This Drawing is a reproduction of the Original on a reduced scale.]



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