

(12) INNOVATION PATENT
(19) AUSTRALIAN PATENT OFFICE

(11) Application No. **AU 2016100632 A4**

(54) Title
A crow bar device with pivot and protective sleeve

(51) International Patent Classification(s)
B66F 15/00 (2006.01)

(21) Application No: **2016100632** (22) Date of Filing: **2016.05.17**

(30) Priority Data

(31) Number	(32) Date	(33) Country
2016201783802	2016.03.10	CN

(45) Publication Date: **2016.06.30**

(45) Publication Journal Date: **2016.06.30**

(45) Granted Journal Date: **2016.06.30**

(71) Applicant(s)
Hangzhou Juxiang Locks Co., Ltd.

(72) Inventor(s)
Meng, Z.Gang

(74) Agent / Attorney
Leoniepat, 15600 W. 99th St., Lenexa, VIC, 6621

This utility model discloses a crow bar device with pivot and protective sleeve, including bearing bar. Mounting sleeve is set up on the top of the bearing bar mentioned close to its left end. The mounting sleeve mentioned is upward sloping. Handlebar is set up in the mounting sleeve mentioned. Screw No.1 is arranged between the handlebar and the mounting sleeve mentioned. Jack is set up at the left end of the bearing bar mentioned. Motion bar is arranged in the jack mentioned. Screw fixing the motion bar mentioned is set up at the front end of the bearing bar mentioned. More than two spherical pivot slots are distributed evenly at the bottom of the motion bar mentioned. T-shaped support is set up below the motion bar mentioned. Spherical pivot fitting with the spherical pivot slot is set up on the top of the support mentioned. Groove is set up in the middle position of the handlebar mentioned and at the end of the handlebar away from the mounting sleeve mentioned. Nonslip sleeve is set up in the groove mentioned. The nonslip sleeve mentioned and the handlebar in the groove mentioned are permanently connected. This device has simple structure and low costs and is suitable for promotion for use.

2016100632 05 Jun 2016

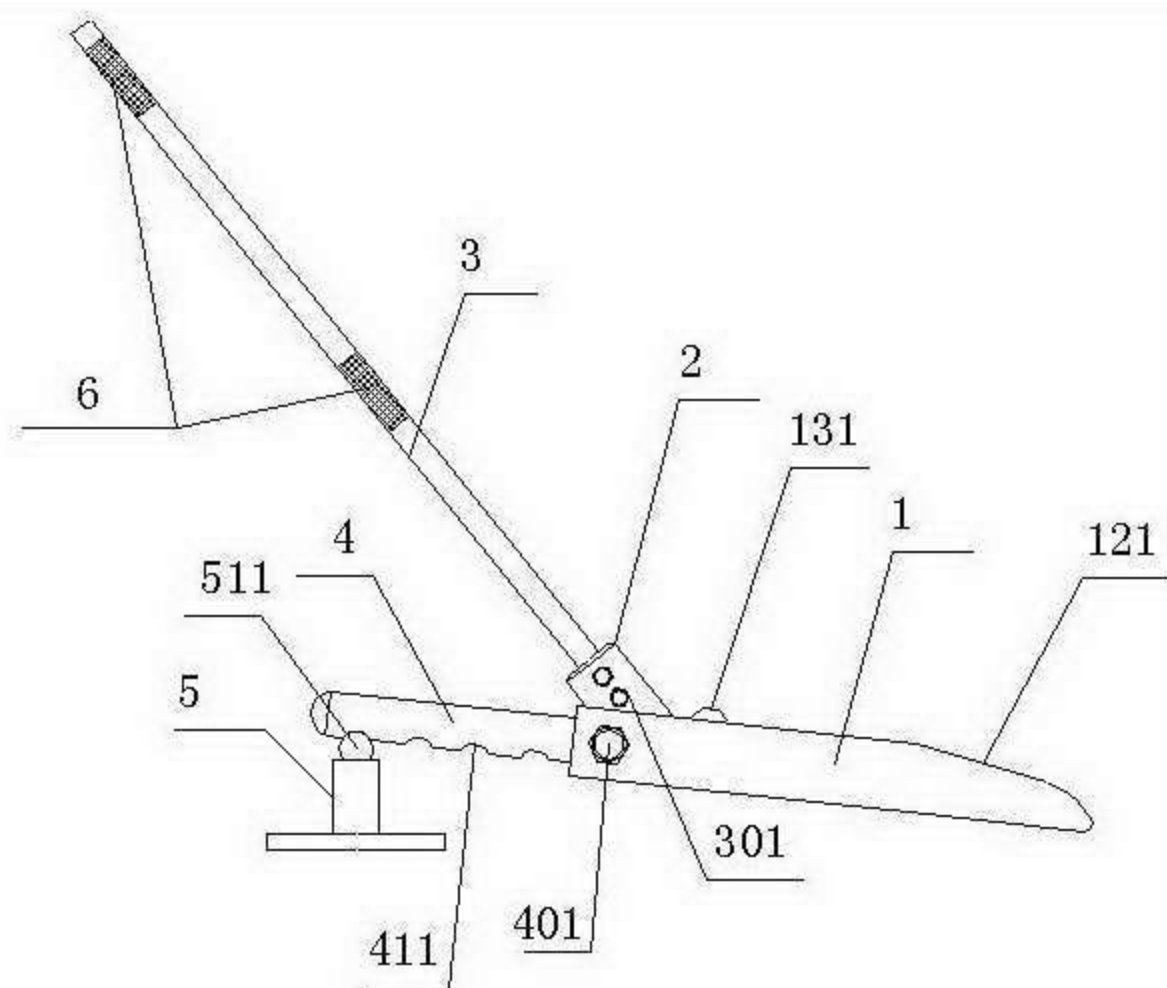


Fig.1

A crow bar device with pivot and protective sleeve

Technical field

This utility model involves a crow bar device with pivot and protective sleeve.

Background technology

Crow bar is a common hardware tool. Goods can be pried via crow bar. However, crow bars in existing technologies have a simple structure. It is necessary to use a pivot in the use process, while it is troublesome to seek for a pivot.

Invention content

The technical problem to be solved by this utility model is to provide a crow bar device with pivot and protective sleeve. When this device is used, the adjustment of pivot position can be completed through the movement of motion bar so as to realize the adjustment of fitting angle of bearing bar for the convenience of prying goods. The nonslip sleeve can effectively protect workers and prevent bubble caused by long-time work.

To solve problems above, this utility model adopts the following technical scheme:

A crow bar device with pivot and protective sleeve includes bearing bar. Mounting sleeve is set up on the top of the bearing bar mentioned close to its left end. The mounting sleeve mentioned is upward sloping. Handlebar is set up in the mounting sleeve mentioned. Screw No.1 is arranged between the handlebar and the mounting sleeve mentioned. Jack is set up at the left end of

the bearing bar mentioned. Motion bar is arranged in the jack mentioned. Screw fixing the motion bar mentioned is set up at the front end of the bearing bar mentioned. More than two spherical pivot slots are distributed evenly at the bottom of the motion bar mentioned. T-shaped support is set up below the motion bar mentioned. Spherical pivot fitting with the spherical pivot slot is set up on the top of the support mentioned. Groove is set up in the middle position of the handlebar mentioned and at the end of the handlebar away from the mounting sleeve mentioned. Nonslip sleeve is set up in the groove mentioned. The nonslip sleeve mentioned and the handlebar in the groove mentioned are permanently connected.

Preferably, guide slope is set up on the top of the bearing bar mentioned close to its right end.

Preferably, stop block is set up on the top of the bearing bar mentioned close to its left end. The stop block and the bearing bar mentioned have an integrated structure.

Preferably, the jack and the motion bar mentioned have transition fit.

Preferably, the end of the motion bar mentioned away from the bearing bar mentioned has spherical transition.

Beneficial effect of this utility model: when this device is used, the adjustment of pivot position can be completed through the movement of motion bar so as to realize the adjustment of fitting angle of bearing bar for the convenience of prying goods. The nonslip sleeve can effectively protect workers and prevent bubble caused by long-time work. This device has simple

structure and low costs and is suitable for promotion for use.

Descriptions of attached figure

To illustrate implementation example of this utility model or technical proposal in existing technologies more clearly, attached figures to be used in implementation example or descriptions of existing technologies are briefly introduced below. Obviously, attached figures described below are only some implementation examples of this utility model. Common technical personnel in this field can obtain other attached figures according to these attached figures without creative work.

Fig.1 is the structural schematic diagram of this utility model.

Detailed implementation way

Preferable implementation example of this utility model is illustrated below in combination with attached figures so that advantages and features of this utility model can be understood by technical personnel in this field more easily and the protection scope of this utility model can be defined more clearly.

A crow bar device with pivot and protective sleeve shown in fig.1 includes bearing bar 1. Mounting sleeve 2 is set up on the top of the bearing bar 1 mentioned close to its left end. The mounting sleeve 2 mentioned is upward sloping. Handlebar 3 is set up in the mounting sleeve 2 mentioned. Screw No.1 301 is arranged between the handlebar 3 and the mounting sleeve 2 mentioned. Jack (not shown in the figure) is set up at the left end of the bearing bar 1 mentioned. Motion bar 4 is arranged in the jack mentioned.

Screw 401 fixing the motion bar 4 mentioned is set up at the front end of the bearing bar 1 mentioned. More than two spherical pivot slots 411 are distributed evenly at the bottom of the motion bar 4 mentioned. T-shaped support 5 is set up below the motion bar 4 mentioned. Spherical pivot 511 fitting with the spherical pivot slot 411 is set up on the top of the support 5 mentioned. Groove is set up in the middle position of the handlebar 3 mentioned and at the end of the handlebar 3 away from the mounting sleeve 2 mentioned. Nonslip sleeve 6 is set up in the groove mentioned. The nonslip sleeve 6 mentioned and the handlebar 3 in the groove mentioned are permanently connected.

A better implementation example in this utility model: guide slope 121 is set up on the top of the bearing bar 1 mentioned close to its right end.

A better implementation example in this utility model: stop block 131 is set up on the top of the bearing bar 1 mentioned close to its left end. The stop block 131 and the bearing bar 1 mentioned have an integrated structure.

A better implementation example in this utility model: the jack and the motion bar 4 mentioned have transition fit.

A better implementation example in this utility model: the end of the motion bar 4 mentioned away from the bearing bar 1 mentioned has spherical transition.

Beneficial effect of this utility model: when this device is used, the adjustment of pivot position can be completed through the movement of motion bar so as to realize the adjustment of fitting angle of bearing bar for the

convenience of prying goods. The nonslip sleeve can effectively protect workers and prevent bubble caused by long-time work. This device has simple structure and low costs and is suitable for promotion for use.

The above shows and describes basic principle, main features and advantages of this utility model. Technical personnel in this industry should know that this utility model is not limited by the implementation example above. The implementation example and descriptions above only describe principles of this utility model. This utility model will have various changes and improvements without violating the spirit and scope of this utility model. Such changes and improvements will fall into the scope of this utility model requiring protection. The scope of protection required by this utility model is defined by the claim attached and its equivalent.

1. A crow bar device with pivot and protective sleeve characterized by the following: it includes bearing bar. Mounting sleeve is set up on the top of the bearing bar mentioned close to its left end. The mounting sleeve mentioned is upward sloping. Handlebar is set up in the mounting sleeve mentioned. Screw No.1 is arranged between the handlebar and the mounting sleeve mentioned. Jack is set up at the left end of the bearing bar mentioned. Motion bar is arranged in the jack mentioned. Screw fixing the motion bar mentioned is set up at the front end of the bearing bar mentioned. More than two spherical pivot slots are distributed evenly at the bottom of the motion bar mentioned. T-shaped support is set up below the motion bar mentioned. Spherical pivot fitting with the spherical pivot slot is set up on the top of the support mentioned. Groove is set up in the middle position of the handlebar mentioned and at the end of the handlebar away from the mounting sleeve mentioned. Nonslip sleeve is set up in the groove mentioned. The nonslip sleeve mentioned and the handlebar in the groove mentioned are permanently connected.
2. Crow bar device with pivot and protective sleeve mentioned according to claim 1 is characterized by the following: guide slope is set up on the top of the bearing bar mentioned close to its right end.
3. Crow bar device with pivot and protective sleeve mentioned according to claim 1 is characterized by the following: stop block is set up on the top of the bearing bar mentioned close to its left end. The stop block and the bearing bar mentioned have an integrated structure.

Claim

4. Crow bar device with pivot and protective sleeve mentioned according to claim 1 is characterized by the following: the jack and the motion bar mentioned have transition fit.
5. Crow bar device with pivot and protective sleeve mentioned according to claim 1 is characterized by the following: the end of the motion bar mentioned away from the bearing bar mentioned has spherical transition.

2016100632 05 Jun 2016

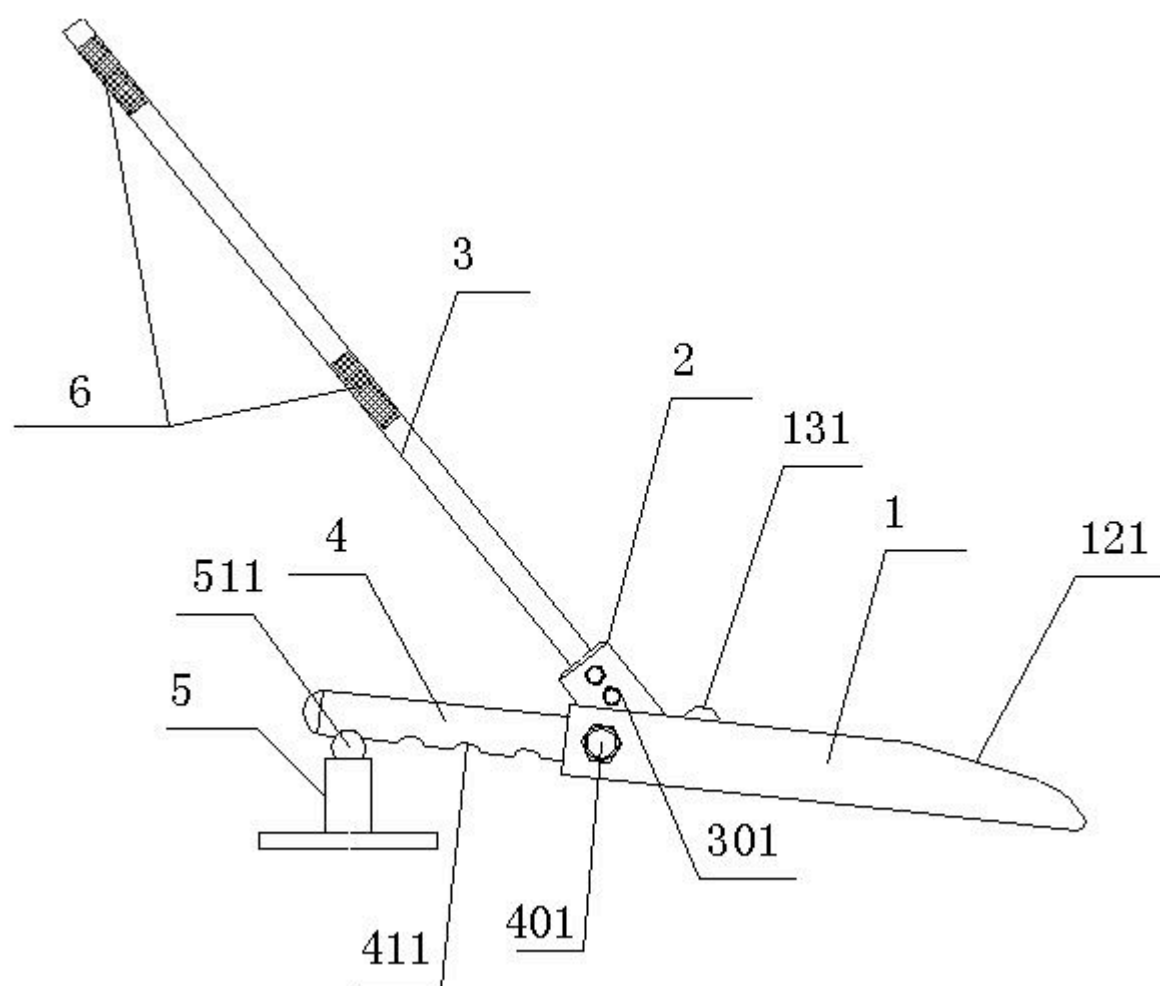


Fig.1