No. 724,708. PATENTED APR. 7, 1903.

D. G. JONES.

COUPLING FOR WELL AUGER SECTIONS.

APPLICATION FILED DEC. 15, 1902.

NO MODEL.

Fig. 1.

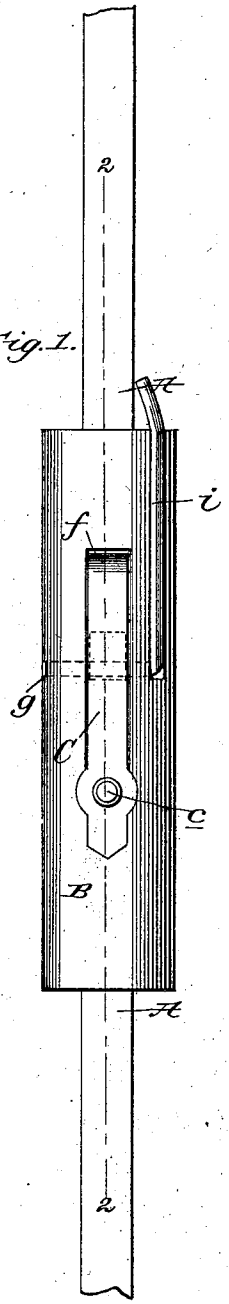


Fig. 2.

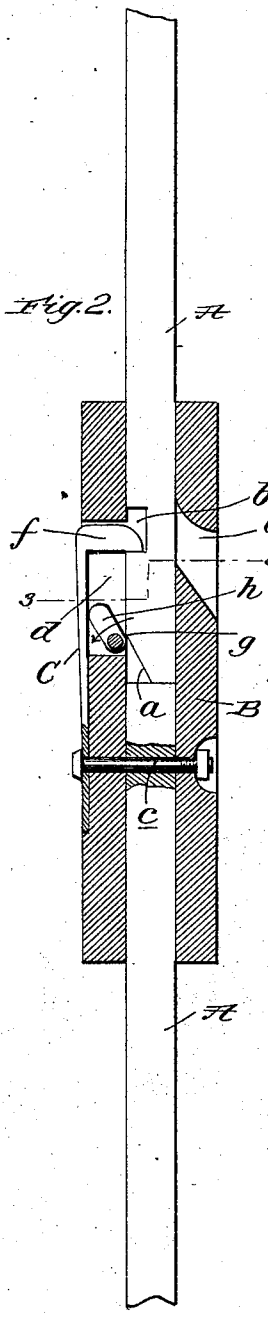


Fig. 3.

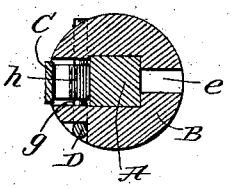
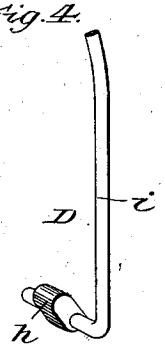


Fig. 4.



Witnesses
C. A. Rauder
N. C. Healy

Inventor
David G. Jones
by James J. Sheehy
Attorney

UNITED STATES PATENT OFFICE.

DAVID G. JONES, OF CHINAGROVE, MISSISSIPPI.

COUPLING FOR WELL-AUGER SECTIONS.

SPECIFICATION forming part of Letters Patent No. 724,708, dated April 7, 1903.

Application filed December 15, 1902. Serial No. 135,305. (No model.)

To all whom it may concern:

Be it known that I, DAVID G. JONES, a citizen of the United States, residing at Chinagrove, in the county of Pike and State of Mississippi, have invented new and useful Improvements in Couplings for Well-Auger Sections, of which the following is a specification.

My invention relates to couplings for well-auger sections, pump-rod sections, and the like; and it consists in the peculiar and advantageous coupling hereinafter described, and particularly pointed out in the claims appended.

In the accompanying drawings, Figure 1 is an elevation of my improved coupling; Fig. 2, a longitudinal section of the same, taken in the plane indicated by the line 2 2 of Fig. 1, with some of the parts in elevation; Fig. 3, a transverse section taken on the line 3 3 of Fig. 2, and Fig. 4 a detail perspective view of the latch-controlling device.

Similar letters of reference designate corresponding parts in all of the views of the drawings, referring to which—

A A are sections which may be those of a well-auger, pump-rod, or analogous device. These sections are similar in construction—*i. e.*, each has its lower end beveled, as indicated by *a*, and is provided in one side adjacent to said end with a notch *b*, while on its upper end is secured by a transverse bolt *c* or other means a socket or tubular coupling-body B. The tubular body or socket B in the preferred embodiment of the invention receives the upper end of the section A, to which it is permanently connected, and is designed to receive the lower end of the next upper or complementary section A, this in order to enable the lower end of the upper section to bear on the upper end of the lower section when the coupling is effected, Fig. 2, with a view of rendering the auger or pump-rod practically continuous and increasing its strength and durability. Said tubular coupling body or socket is provided in one side with an aperture *d* for a purpose presently described, and it is by preference also provided in one side with a recess or aperture *e*, this latter being designed for the engagement of the hook used in raising and lowering auger and pump rods and having its lower wall beveled, as shown, to facilitate such engagement.

C is a spring-latch connected adjacent to one end to the coupling body or socket B, preferably through the medium of the bolt *c* and having a head *f* at its opposite end arranged to extend through the aperture *d* of the body or socket B and into the notch *b* of the upper section A, and D is a latch-controlling device. This device is journaled at *g* in the coupling body or socket and comprises a toe *h*, designed to engage the latch, and a handle *i*, the said handle being disposed outside the coupling body or socket, as shown.

In practice when it is desired to couple the two sections A the upper section is simply moved downwardly in the body or socket B until its lower end abuts against the upper end of the lower section, as shown in Fig. 2. Incident to such movement of the upper section its beveled end *a* will press outwardly and ride past the latch-head *f*, which will bear against the side of the section until it springs into the notch *b*, and thereby securely connects the said section to the body or socket. When it is desired to disconnect the sections, it is simply necessary for the operator to rock the device D in the direction indicated by arrow, Fig. 2, to disengage the latch-head *f* from the notch *b* and then withdraw the upper section A from the coupling body or section B. Subsequent to the withdrawal of the said section A from the coupling body or socket and the release of the device D the latch will return to the position shown in Fig. 2 ready to engage another section A when the same is shoved into the body or socket B.

It will be readily appreciated from the foregoing that in virtue of the construction of my improved coupling the sections of a well-auger, pump-rod, or the like may be quickly and easily connected together in such manner that there is no liability of casual disconnection and as readily disconnected when desired; also, that the coupling is simple and inexpensive and yet very strong and well calculated to withstand the shocks and strains to which well-augers, pump-rods, and the like are ordinarily subjected.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a coupling for well-auger sections, pump-rod sections and the like, the combination of a section, a tubular body or socket fixed on said section, and having an opening in one of its sides, a spring-latch connected to said body or socket, and having a head extending through the opening thereof, a latch-controlling device journaled in the body or socket, and comprising a toe arranged to engage the latch, and a handle disposed outside the body or socket, and a second section having a beveled end arranged in the body or socket, and also having a notch receiving the head of the spring-latch.

2. In a coupling for well-auger sections, pump-rod sections, and the like, the combination of a section, a tubular body or socket receiving said section, and having an opening *d* in one of its sides, a spring-latch disposed outside the body or socket, and having a head at one end extending through the opening thereof, a transverse bolt extending through and connecting the spring-latch, the body or socket and the section, a latch-controlling device journaled in the body or socket, and comprising a toe arranged to engage the latch, and a handle disposed outside the body or socket, and a second section having a beveled end arranged in the body or socket, and also having a notch receiving the head of the spring-latch.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

DAVID G. JONES.

Witnesses:
JAMES H. LAMPTON,
J. H. MARTIN.