(No Model.)

F. A. BARRETT.

STAND POINT FOR TUBULAR WELLS.

No. 492,182. Patented Feb. 21, 1893.

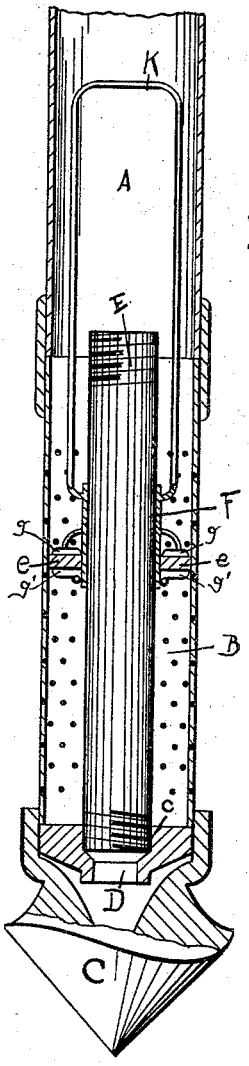

Fig. 1.

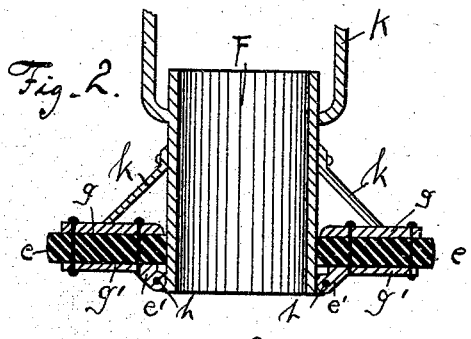

Fig. 2.

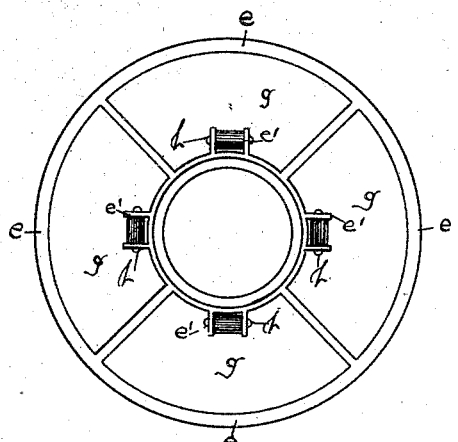

Fig. 3.

WITNESSES:

H. V. Sues

E. J. Schmitt

Frank A. Barrett

INVENTOR

BY C. N. Sues

ATTORNEY.

UNITED STATES PATENT OFFICE.

FRANK A. BARRETT, OF NEWMAN GROVE, NEBRASKA.

STAND-POINT FOR TUBULAR WELLS.

SPECIFICATION forming part of Letters Patent No. 492,182, dated February 21, 1893.

Application filed October 17, 1892. Serial No. 449,163. (No model.)

To all whom it may concern:

Be it known that I, FRANK A. BARRETT, of Newman Grove, in the county of Madison and State of Nebraska, have invented certain useful Improvements in Stand-Points for Tubular Wells; and I do hereby declare that the following is a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention has relation to a new and novel stand point for tubular wells, the object being to provide a point that shall be so arranged that a test can be made for water at any point during the process of boring.

In the accompanying drawings, Figure 1 shows a sectional elevation of a stand point with parts broken away, embodying my invention; Fig. 2 is an enlarged sectional view of the sectional washer used in my device, while Fig. 3 shows a top view of Fig. 2.

A represents a tube of suitable size and material, such as is ordinarily used in boring tubular wells, to the lower end of which is screwed, the perforated tube B which is provided at the lower end with the hollow auger C as is usual in devices of this class.

Held within the auger C is the nozzle plate D, secured by any suitable means, provided with the central threaded opening *c*, within which is held the stub pipe E threaded at both ends, and provided with a right and a left hand screw, as shown in Fig. 1. Surrounding this pipe E, which is preferably a little longer than the tube B, is a sectional washer, comprising the collar F, to which are hinged the washer sections *e*, *e*, *e*, *e*, as shown in Figs. 2 and 3. These sections *e* are of rubber, leather or any other suitable material and are secured between the plates *g*, *g'*, the lower plate *g'* being provided with a lug *e'* having a pin opening, within which the pin *h* is held, and by means of which the sections are movably secured to the collar F, being held within the ears *h'*, as shown. The sections *e*, as will be noticed, are hinged to the collar, and so as to permit a downward or dropping movement of the sections *e*. To prevent the sections passing too far upward, I provide the arms *k*, which are secured to the collar F and act as a stop. The collar F is provided with an extending bail K, so that the collar which is held adjustably upon the tube E, may be raised or lowered, being operated by an ordinary hook secured to a suitable pole.

In the drawings, the sectional washer is shown partly lowered, but while drilling this washer is brought upward above the perforations within the tube B, so that while the water might enter the screen tube, it could not enter the main tube A.

To test for water while drilling it would simply be necessary to shut off the water used in drilling, shove down the sectional washer, so that the water could enter the screen tube B and rise in the pipe A. If a sufficient supply had been found, it would simply be necessary to drop a pole hook, engage the bail K, and draw up the washer, the sections of which would close, and so permit a ready removal of the same. The stand pipe E could next be removed, by lowering a pole having a left handed thread within the lower end, which would screw upon the pipe E, and being secured, would unscrew the tube from the nozzle P, and so could be readily removed. In case that the supply proved insufficient, it would simply be necessary to again raise the washer into its first position, until the proper depth had been reached.

The device is noticeable because of its simplicity.

Having thus described my said invention, what I claim as new, and desire to secure by United States Letters Patent, is—

1. In a stand point for tubular wells, the combination with a hollow auger, of a nozzle within said auger, a stand pipe within said nozzle, provided with a right and left handed thread a sectional washer working upon said stand pipe, comprising a collar, provided with an extending bail, and a sectional washer hinged to said collar, and a screen pipe surrounding said stand pipe, and secured to said auger, and a supply tube, all substantially as and for the purpose set forth.

2. In a stand point for tubular wells, the combination with the auger C, of the nozzle

D, the threaded tube E within said nozzle, the screen pipe B connected to the supply pipe A and the auger C, and an adjustable washer, comprising the collar F having the bail K the stop arms *k*, and the sectional washers *e*, held to said collar by means of the plates *g*, *g'*, the latter being provided with the lug *e'*, and held between the ears *h'* of the collar F, all arranged substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

FRANK A. BARRETT.

Witnesses:

C. A. RANDALL,

GEO. C. JOHNSON.