

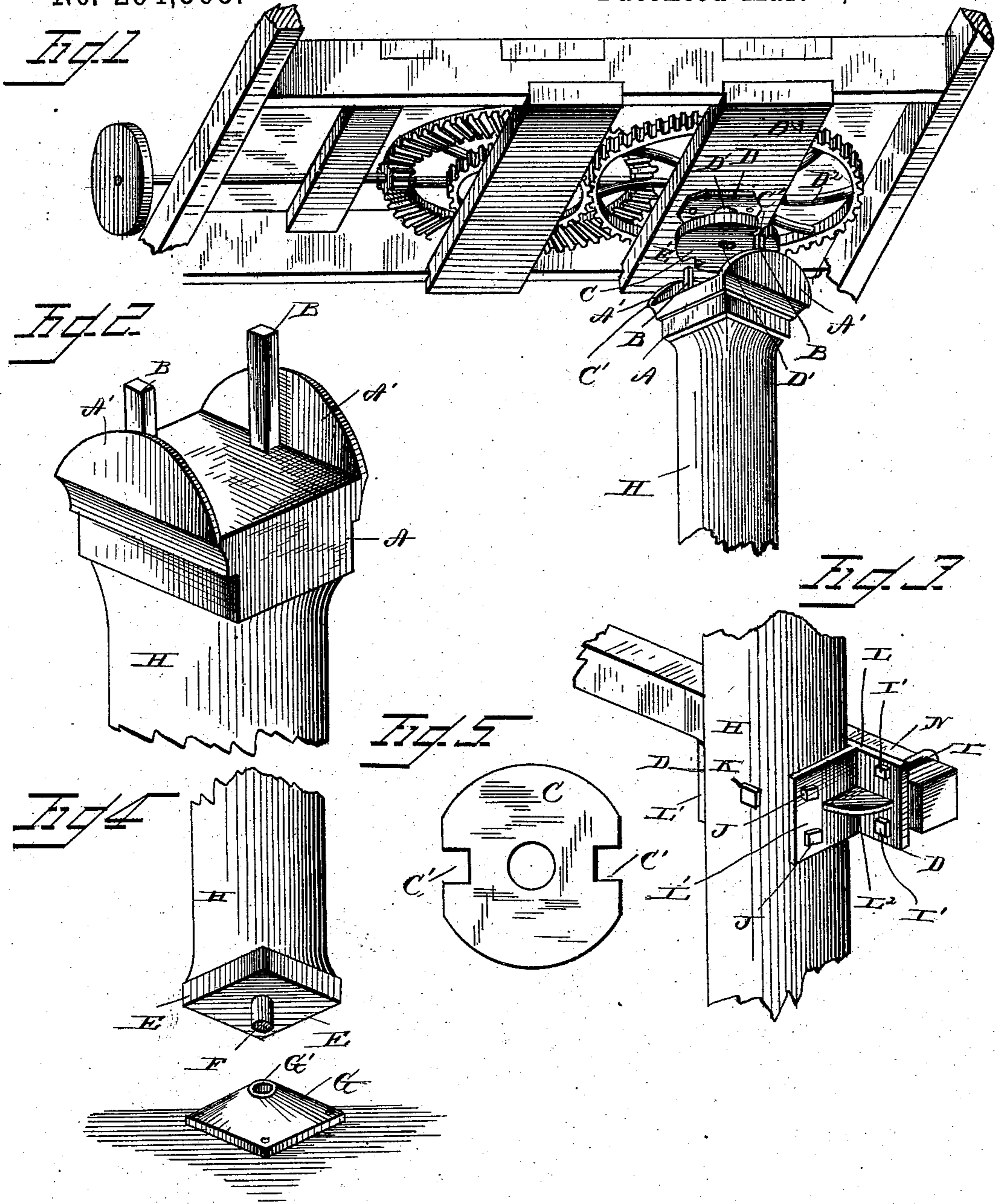
(No Model.)

F. B. BIGNELL.

REMOVABLE POST FOR HORSE POWER TRANSMITTERS.

No. 294,568.

Patented Mar. 4, 1884.



WITNESSES

F. L. Oyrand
C. W. Bignell

INVENTOR

Frank B. Bignell
By Frank A. Fouts

Attorney

UNITED STATES PATENT OFFICE.

FRANK B. BIGNELL, OF SMYRNA, MICHIGAN.

REMOVABLE POST FOR HORSE-POWER TRANSMITTERS.

SPECIFICATION forming part of Letters Patent No. 294,568, dated March 4, 1884.

Application filed November 26, 1883. (No model.)

To all whom it may concern:

Be it known that I, F. B. BIGNELL, a citizen of the United States, residing at Smyrna, in the county of Ionia and State of Michigan, have
5 invented certain new and useful Improvements in Removable Posts for Horse-Power and other Power Transmitters and Connecting Means, of which the following is a specification, reference being had therein to the accompanying
10 drawings.

My invention relates to a new and useful improvement in horse-power; and it consists in a post with its attachment so constructed as to permit its being removed without disturbing
15 the power.

In the accompanying drawings, Figure 1 is a perspective view of the upper end of the post, in close proximity to the power above. Fig. 2 is a perspective view of the head on
20 the post and a fragment of said post. Fig. 3 is a perspective view of the end of the sweep in engagement with the post, showing the connecting means. Fig. 4 is a perspective view of the bottom of the post, having a plate and
25 stud thereon, and the floor-plate having an opening adapted to receive said stud. Fig. 5 is a plan view of the notched plate secured to the lower end of the shaft.

In the accompanying drawings similar letters refer to similar parts throughout the several views.

A is the cap-plate, provided with the upwardly-projecting side flanges, A' A'.

B B are lugs on the cap, lying against the inner side of the side flanges, A'. These lugs
35 constitute the clutch, which engages the notches C' C' in the periphery of the plate C. Said plate is fixed to the under side of the main shaft D'. Said shaft is fixed to the main cog-
40 wheel D².

D is a plate provided with an opening, through which the main shaft D' passes. Said plate is bolted to the cross-beam D³.

E is the bottom plate on the post H.

45 F is a stud fixed to the plate E.

G is the floor-plate, provided with a central opening, G'. The stud F engages the floor-plate opening G', and turns therein when the post is in position.

50 N represents the sweep, secured to post H by a plate, L, and staples I.

L' L' are two wings on the front side of the plate L. These wings fit the sides of the post, and are secured thereto by means of the bolts J. Said bolts pass through the wings and
55 post, and are secured by nuts.

K is a bolt passing through the post, plate L, and sweep, at right angles to the bolts J. The plate L is also fixed to the sweep N by means of two staples, I, one of which is shown
60 in Fig. 3. These staples pass around the sweep, and they are provided with threaded ends, which pass through openings in the plate L, and they are secured thereto by nuts I' on the face of said plate.
65

L² are brace-plates between the plate L and its wings L'. One of these brace-plates is shown in Fig. 3.

The post and connecting means herein shown and described permit the engagement of said
70 post with the power, or its removal, at pleasure. The flanges A', being circular, admit the easy insertion of the clutch-studs B into the notches C' of the plate C—that is to say, the post, by reason of the curved flanges A', may
75 be slightly inclined from a perpendicular when being engaged to or disengaged from the plate C. These flanges at the same time brace and strengthen the studs B.

It is obvious that my removable post and
80 connecting means may be used with horse-power or other power transmitter.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination of the post H, plate L, 85 having wings L', the sweep N, and staples I, all suitably united, substantially as described, and for the purposes set forth.

2. The combination of the post H, plate L, having wings L', the staples I, and bolts
90 J K, the staples being secured to the sweep and plate L, in the manner and for the purposes specified.

3. The combination of the post H, provided on its under side with the plate E and stud F, 95 and having the plate A and studs B on its upper end, the plate C, having notches C', and shaft D', substantially as described, and for the purposes set forth.

4. The combination of the post H, provided 100 on its upper end with the curved flanges A' and studs B, the notched plate C, and shaft

D', substantially as described, and for the purposes set forth.

5 The combination of the post H, provided with stud F on its under side, and having the circular flanges A' and studs B on its upper side, the plate G, having opening G', the notched plate C, and shaft D', substantially as described, and for the purposes set forth.

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

FRANK B. BIGNELL.

Witnesses:

CHARLES W. BIGNELL,
FRANK R. CHASE.