

(No Model.)

C. NEATE.
FENCE BUILDING MACHINE.

No. 528,303.

Patented Oct. 30, 1894.

Fig. 1.

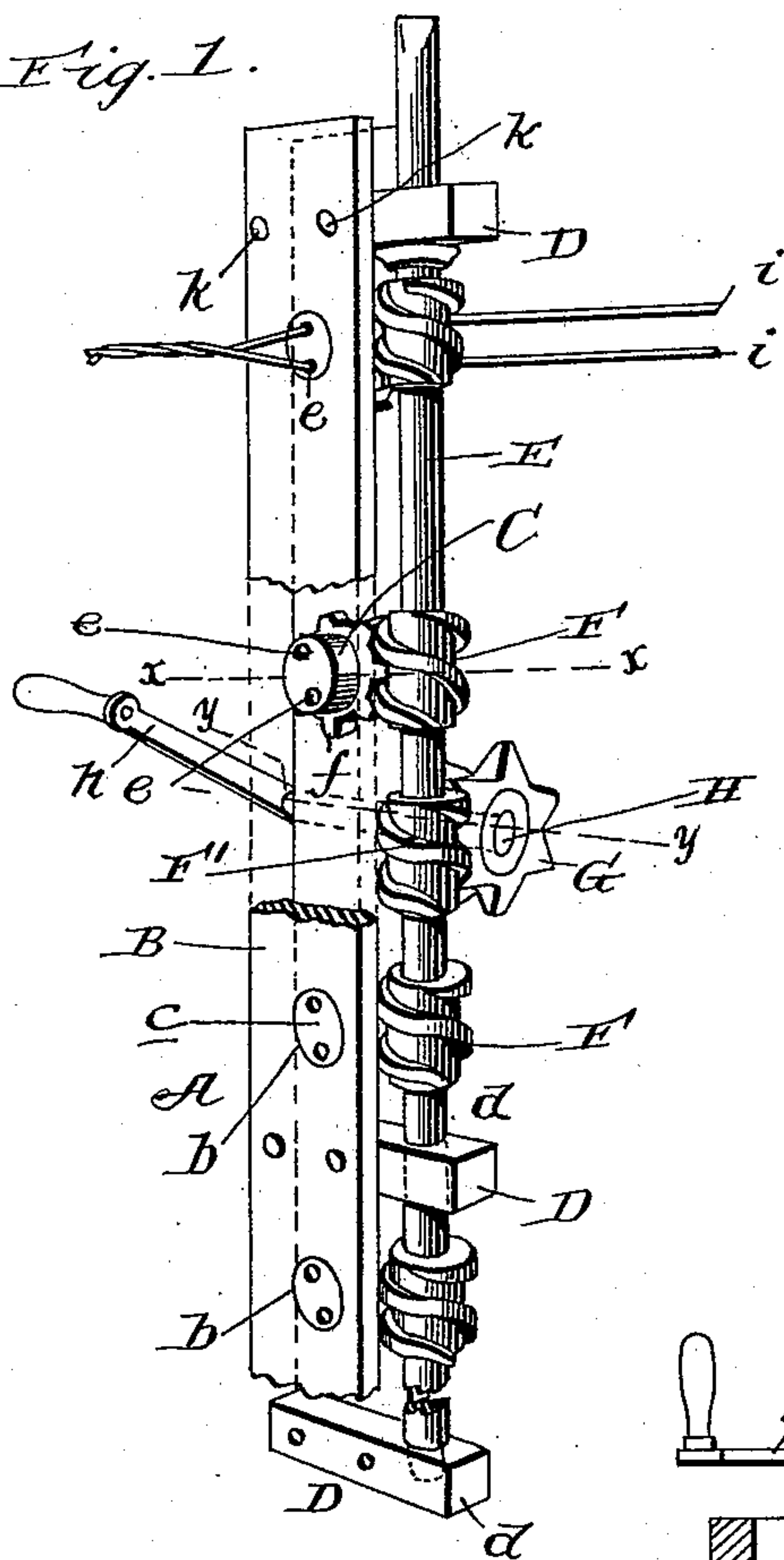


Fig. 2.

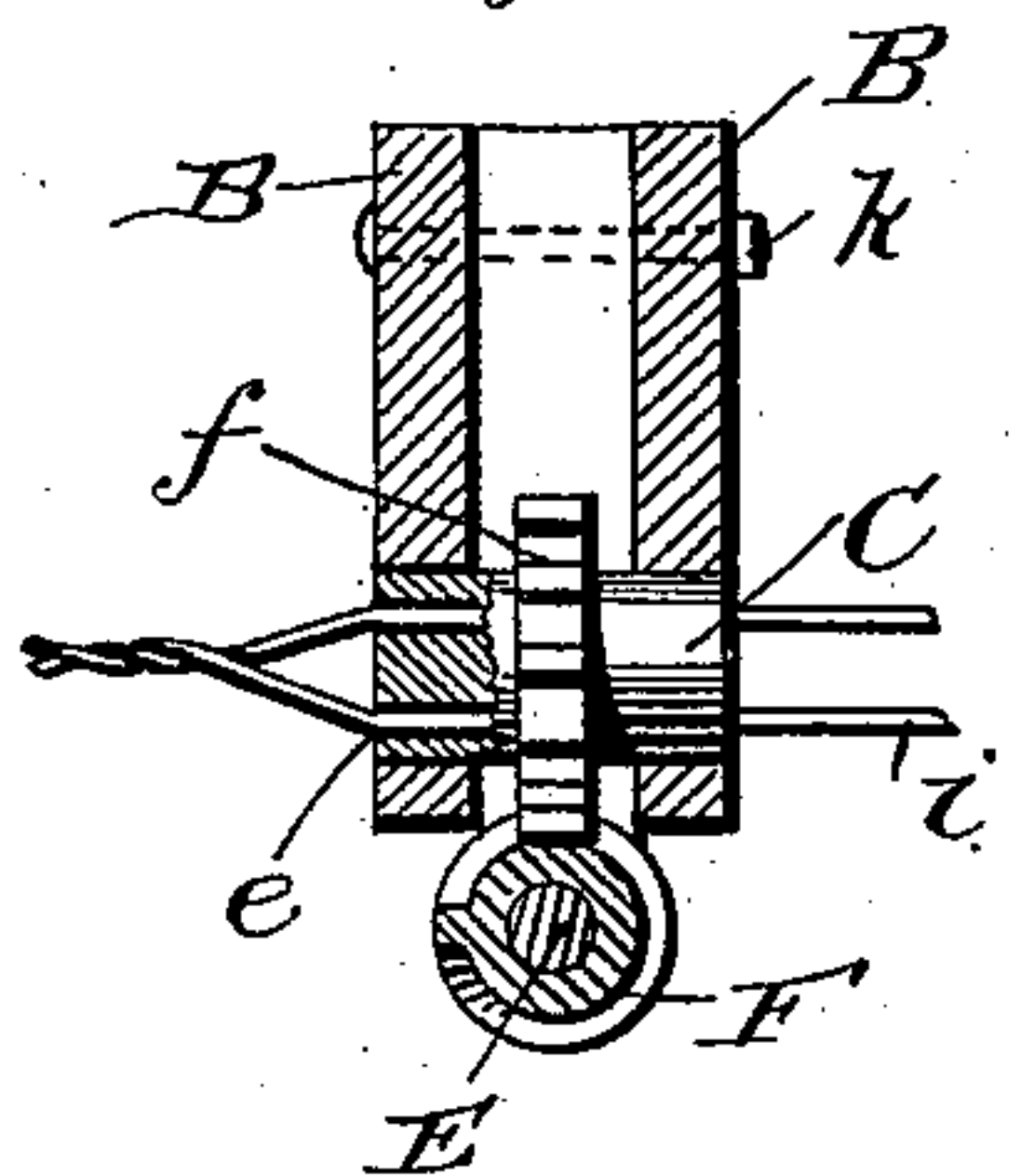
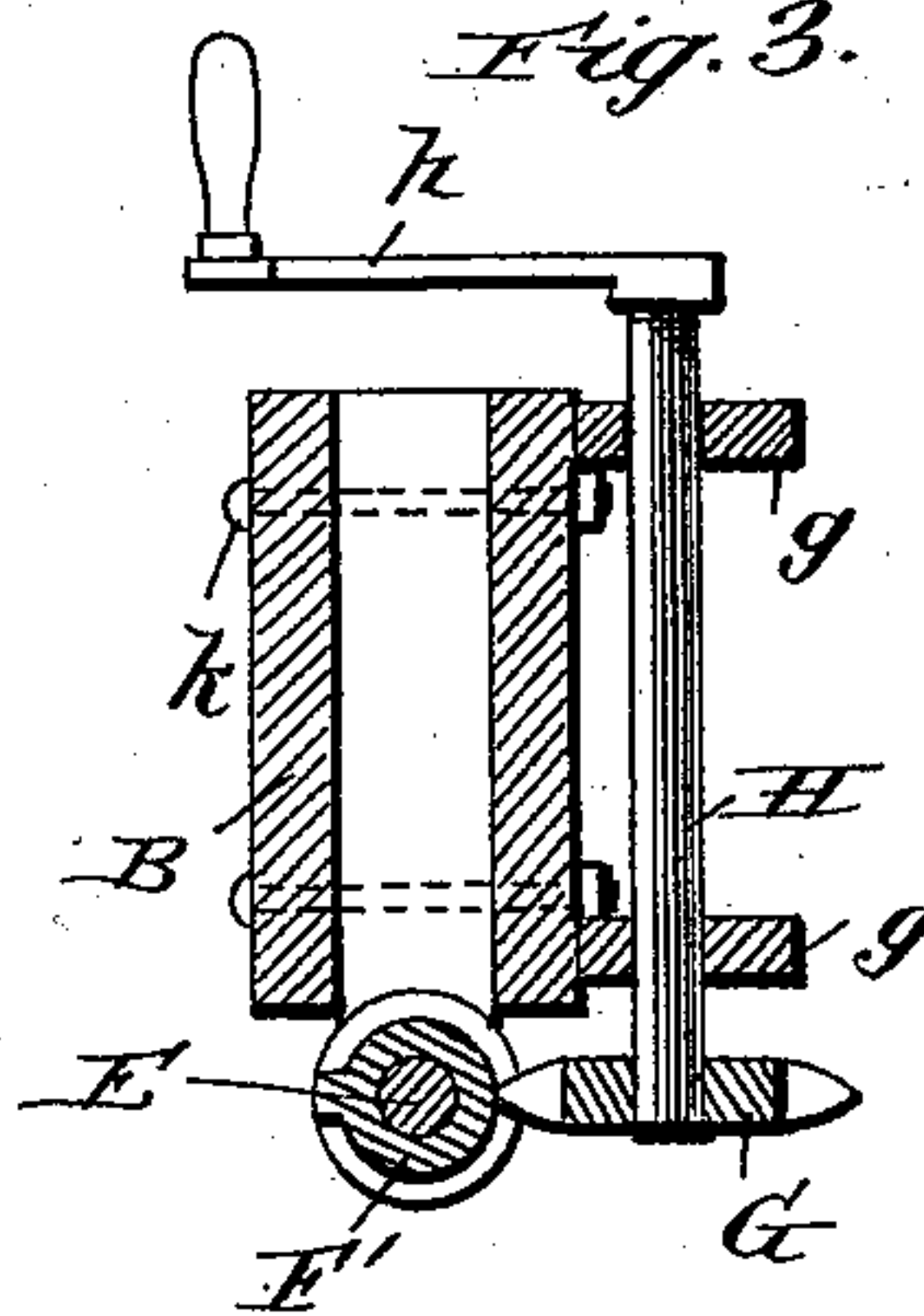


Fig. 3.



Witnesses
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FENCE-BUILDING MACHINE.

SPECIFICATION forming part of Letters Patent No. 528,303, dated October 30, 1894.

Application filed August 23, 1894. Serial No. 521,072. (No model.)

To all whom it may concern:

Be it known that I, CHARLES NEATE, a citizen of the United States, residing at Upper Sandusky, in the county of Wyandot and State of Ohio, have invented certain new and useful Improvements in Fence-Machines; and I do declare the following to be 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.

My invention relates to improvements in that class of wire and picket fence building machines which comprise rotary twister spools having peripheral gear teeth and a rotary shaft having a series of gears meshing with the teeth of the spools; and it has for its general object to provide such a wire and picket fence-building machine of a very cheap and strong construction and one which embodies but a small number of parts.

With the foregoing end in view, the invention will be fully understood from the following description and claim when taken in connection with the annexed drawings, in which—

Figure 1, is a perspective view of my improved machine in an operative position with parts partially broken away. Fig. 2, is an enlarged, transverse section taken in the plane indicated by the line $x-x$, of Fig. 1, and Fig. 3 is a similar view taken in the plane indicated by the dotted line $y-y$, of Fig. 1.

Referring by letter to said drawings: A, indicates the main frame of my improved machine. This frame A, is preferably constructed of wood and it comprises the uprights B, which are provided at intervals in their length with aligned apertures b , to receive the trunnions c , of the twister spools C, and the three (more or less) blocks D, which are interposed between and connected by bolts k , or the like with the uprights and which are extended on one side of said uprights as shown at d , in Fig. 1, for a purpose presently to be described. The twister spools C, are journaled in the uprights B, as better shown in Fig. 2, and they are provided with the usual passages e , for the fence wires and

with the peripheral gear-teeth f , which rest between the uprights as illustrated.

E, indicates a vertical shaft which is stepped at its lower end in the extended portion d , of the lowermost block D, and is journaled in the extended portion of the other blocks, and F, indicates a series of four (more or less) worm screws which are fixed upon or formed integral with the shaft E, and are designed to engage the gear teeth f , of the twister spools C; while F', indicates a worm screw which is similar to the screws F, and is designed to be engaged by the pinion G, on the crank shaft H. This shaft H, is journaled in suitable bearings g , connected to and extending laterally from one of the uprights of the frame; and when said shaft is rotated through the medium of its crank handle h , it will be seen that the twister spools C, will also be rotated through the medium of the pinion G, the worm screw F', the shaft E, the worm screws F, and the gear teeth f .

In using my improved machine the pairs of fence wires i , are passed through the passages e , of the twister spools as shown in Fig. 1, and are twisted through the medium of said spools on opposite sides of the pickets in the ordinary manner.

It will be seen from the foregoing description that my improved machine is very compact and will therefore take up but a minimum amount of space in storage: and it will also be seen that the machine is sturdy and strong and that it embodies but few parts, between which there is but little friction, and that therefore it may be operated with the exercise of but little power.

Having described my invention, what I claim is—

The herein described fence building machine consisting essentially of the frame A, comprising the uprights having apertures b at intervals in their length, and the blocks D interposed between and connected with the uprights and having the extended portions d , the twister spools having trunnions journaled in the apertures b of the uprights and also having the passages e and the peripheral

gear teeth *f*, the vertical shaft stepped at its lower end in the extended portion of the lowermost block D and journaled in the extended portions of the other blocks, the worm-screws
5 F fixed on said shaft and engaging the gear teeth *f* of the twister spools, the worm screw F' also fixed on the shaft E, and the shaft H journaled in suitable bearings on one of the uprights of the frame and having a pinion at one end engaging the worm-screw F' and having a crank handle at its opposite end, all substantially as and for the purpose set forth.
In testimony whereof I affix my signature in presence of two witnesses.
CHARLES NEATE.

Witnesses:

F. C. BRANDT,
JOEL W. GIBSON.