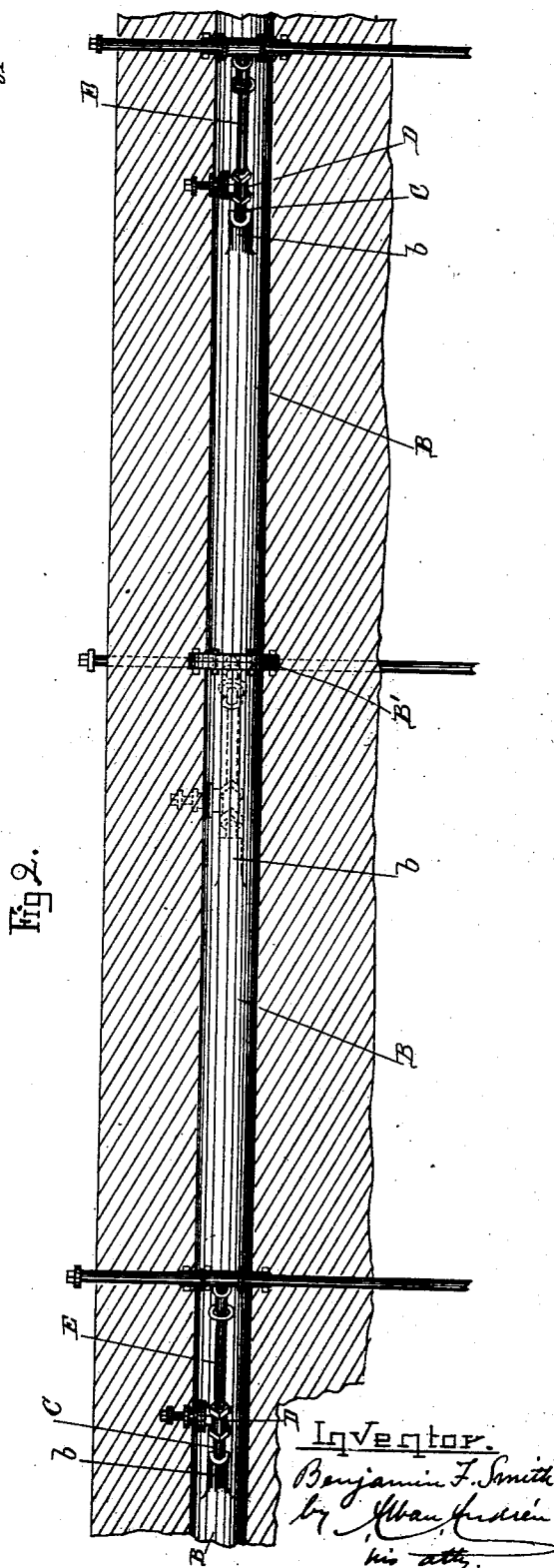
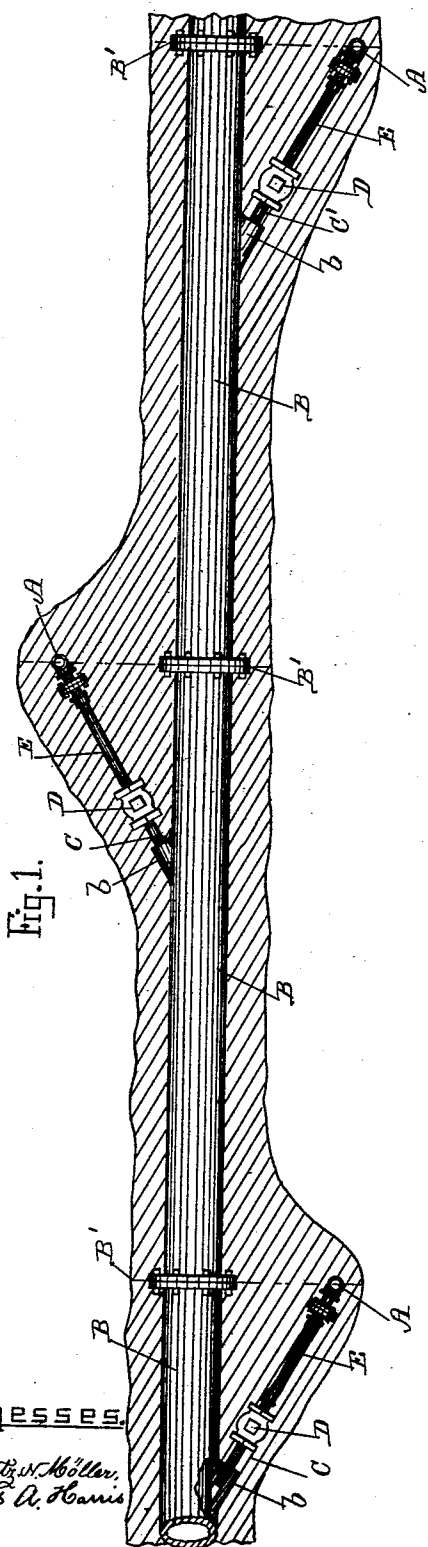


(No Model.)

B. F. SMITH.
DRIVEN WELL SYSTEM.

No. 572,034.

Patented Nov. 24, 1896.



UNITED STATES PATENT OFFICE.

BENJAMIN F. SMITH, OF SOMERVILLE, MASSACHUSETTS, ASSIGNOR OF ONE-HALF TO CHARLES G. SMITH, OF SAME PLACE.

DRIVEN-WELL SYSTEM.

SPECIFICATION forming part of Letters Patent No. 572,034, dated November 24, 1896.

Application filed May 20, 1896. Serial No. 592,302. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN F. SMITH, a citizen of the United States, and a resident of Somerville, in the county of Middlesex and State of Massachusetts, have invented new and useful Improvements in Driven-Well Systems, of which the following, taken in connection with the accompanying drawings, is a specification.

10 This invention relates to improvements in driven-well systems; and it has for its object the facilitating of the digging of the trench in which the main conduit-pipe and Artesian-well supply-pipes are located, and it is carried out as follows, reference being had to the accompanying drawings, wherein—

Figure 1 represents a top plan view of my invention, and Fig. 2 represents a side elevation of the same.

20 Similar letters refer to similar parts wherever they occur on the different parts of the drawings.

In the drawings, A A A represent the individually-driven Artesian-well pipes, and B B B represent sections of the main conduit or delivery pipe to which said well-pipes A are connected, as shown. On the side of each pipe B is cast in one piece with it a hollow inclined boss or hub *b*, said hubs or bosses being arranged alternately on opposite sides of the sections B B, as shown.

30 B' B' B' represent the joints of the sections B B B, said joints being shown in the drawings as flanged ones; but any other well-known form of joints for said pipes may be used without departing from the essence of my invention.

40 The respective well-pipes A are located transversely alternately at opposite sides of said joints B', by which great saving is obtained in the making of the excavations for laying the conduit B B, as of necessity a greater amount of digging is necessary where

the joints of the said conduit are located, and by arranging the said joints in a transverse line with the positions of the well-pipes A a great saving in digging the trench is obtained.

To each inclined hub or boss *b* on the sections B is connected a pipe C, preferably provided with a valve or cut-off D, which is connected to the well-pipe A by means of a flexible pipe E, as shown in the drawings.

By the arrangement as above described several advantages are obtained, among which may be mentioned: The conduit-pipes B, with their inclined bosses or hubs *b*, are made uniform, and only a single pattern is needed for all the sections in the series. Great saving in the cost of trenching the pipes is attained on account of locating the well-pipes alternately at opposite sides of the conduit-joints, and by using flexible connections E between the well-pipes and conduit-pipes an easy and practical connection is established between the conduit and well pipes without the need of specially-prepared connection-pipe for this purpose.

What I wish to secure by Letters Patent and claim is—

In a driven-well system, a series of jointed conduit-pipes having straight inclined hubs or bosses cast thereon, well-pipes alternately arranged on opposite sides of said conduit-pipe approximately in line with the joints of the latter, and inclined branch pipes leading from the said well-pipes to the said inclined hubs or bosses, substantially as described and for the purposes specified.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 30th day of April, A. D. 1896.

BENJAMIN F. SMITH.

Witnesses:

ALBAN ANDRÉN,
LAURITZ N. MÖLLER.