

No. 709,119.

Patented Sept. 16, 1902.

E. H. SMITH.
BLANK FOR PIPE ELBOWS.
(Application filed Nov. 26, 1901.)

(No Model.)

Fig. 1.

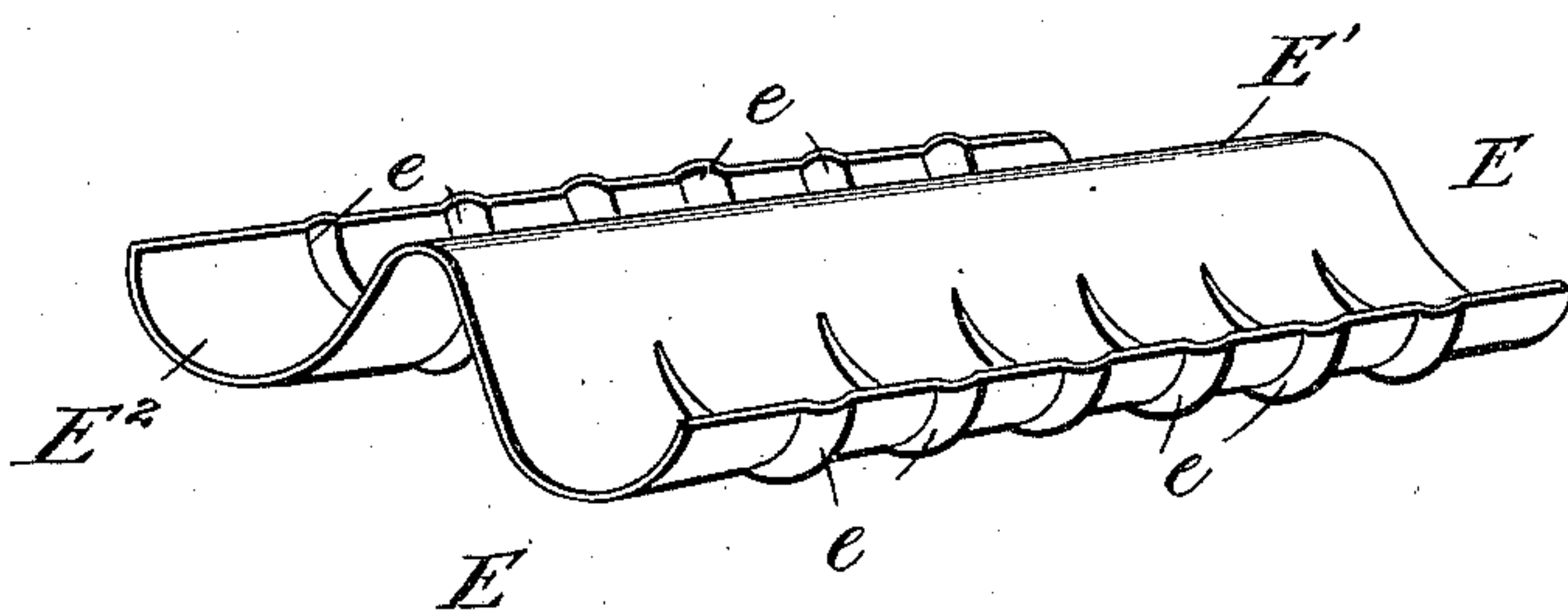


Fig. 2.

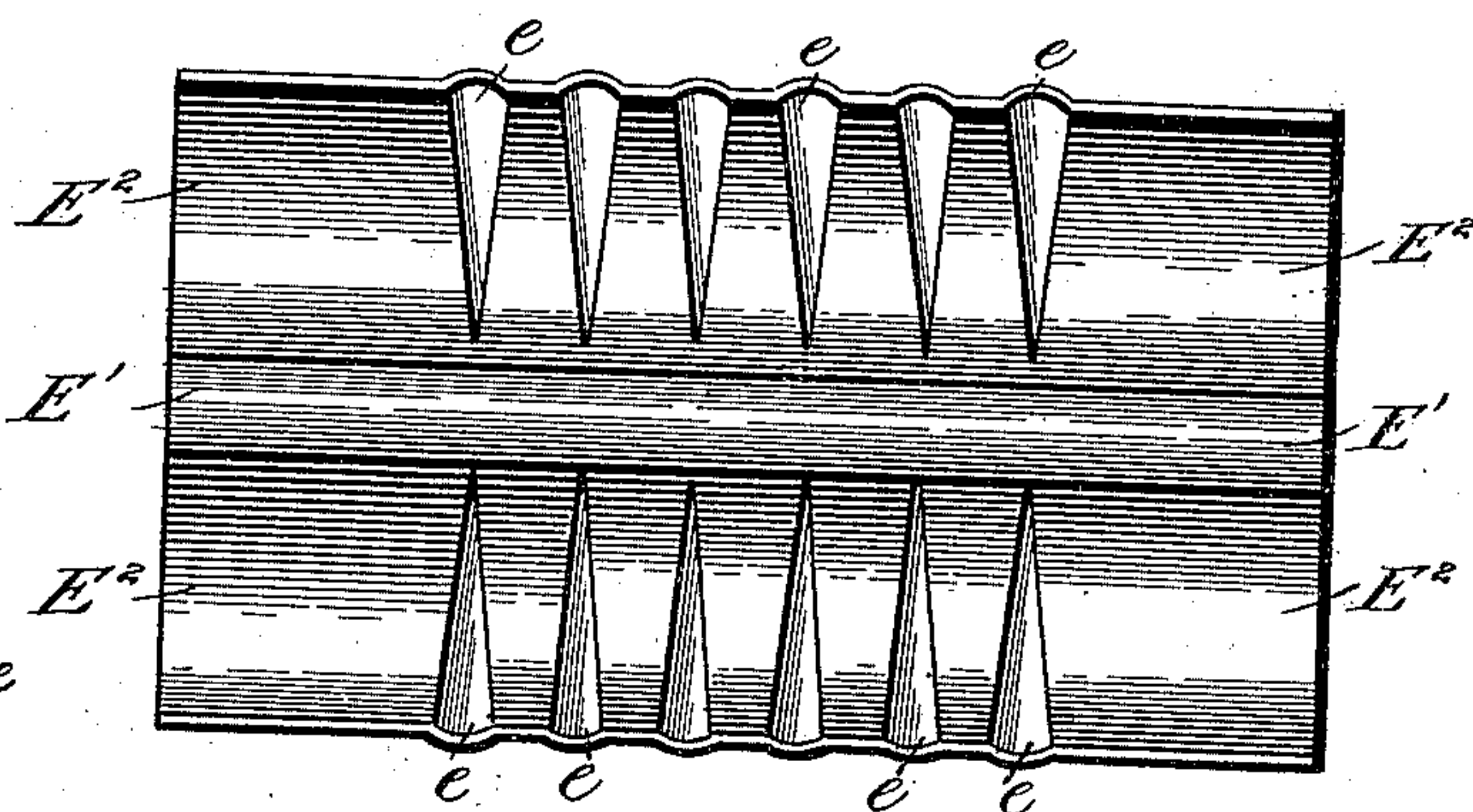
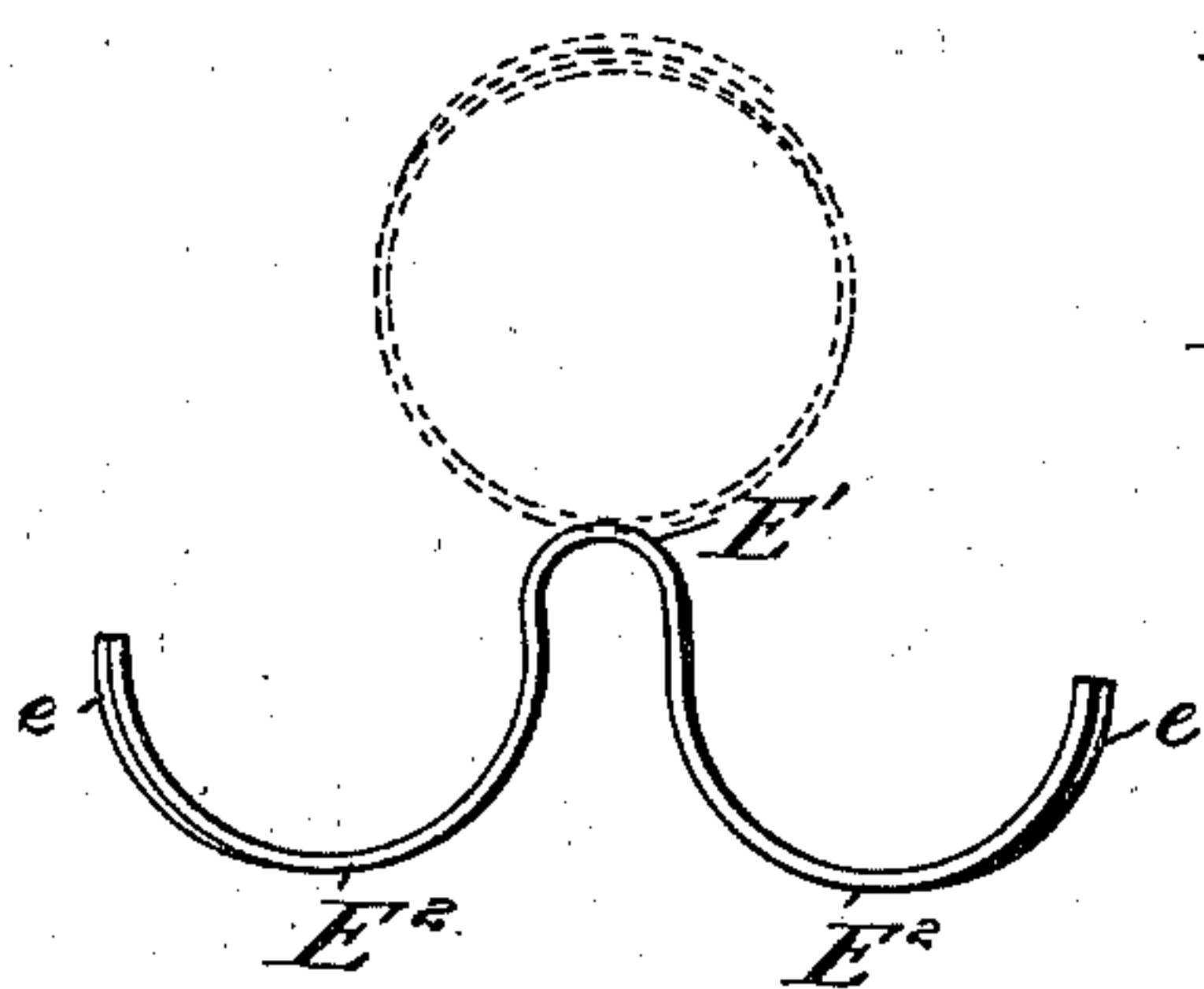


Fig. 3.



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BLANK FOR PIPE-ELBOWS.

SPECIFICATION forming part of Letters Patent No. 709,119, dated September 16, 1902.

Application filed November 26, 1901. Serial No. 83,754. (No model.)

To all whom it may concern:

Be it known that I, EDWARD HERBERT SMITH, a citizen of the United States, residing at Mount Vernon, in the county of Knox and State of Ohio, have made certain new and useful Improvements in Blanks for Pipe-Elbows, of which the following is a specification.

My invention is an improvement in pipe-elbows, and has for an object to provide a novel construction of so-called "intermediate blank;" and the invention consists in certain novel constructions and combinations of parts, as will be hereinafter described and claimed.

In the drawings, Figure 1 is a perspective view, Fig. 2 a top plan view, and Fig. 3 an end view, of the intermediate blank.

By my invention I provide what I term the "intermediate blank" E, of sheet metal, having the similar semicylindrical side portions E² E² on opposite sides of the central projecting portion E', which constitute halves of the completed elbow-cylinder when the part E is bent to the cylindrical form indicated in dotted lines and will be provided with the preliminary crimps e, as shown in Figs. 2 and 3, which aid in the production of the crimps desired in the completed elbow. It will be understood that the central portion E' projects above the outer edges of the blank to such an extent as to provide sufficient metal to enable the lapping of the crimped edges of the construction shown in Fig. 3 in producing the cylinder from which the elbow is to be constructed. The sheet metal may be bent from the form shown in Fig. 3 to the dotted-line cylindrical form indicated in said figure by any suitable means and which need not be described herein, as the present invention relates to what I have termed the "intermediate blank," having the preliminary or initial crimps and so formed as to facilitate the production of the completed cylinder and ultimately the completed elbow, it being understood that in the production of the completed elbow the construction shown in Figs. 1, 2, and 3 is first bent into cylindrical form

and is then bent lengthwise, such lengthwise bending operating to flatten the initial crimps and bring them into a position radial to the elbow.

So far as I am informed the construction of the so-called "intermediate blank" E is new, said intermediate blank consisting of sheet metal having the opposite preliminary semicylindrical sections, which are provided with the transversely-extending crimps and are united by the longitudinal intermediate elevated portion, as shown and before described.

As shown in Fig. 3, the opposite parallel portions E² are semicylindrical in cross-section or curved on equal arcs, so they will conform to the desired cylindrical form of the elbow when bent to the dotted-line position.

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

1. As a new article of manufacture an intermediate blank for a pipe-elbow composed of sheet metal and having the opposite semicylindrical portions and the intermediate elevated portion and provided in the semicylindrical portions with the transverse initial crimps, substantially as set forth.

2. An intermediate blank for use in making pipe-elbows composed of sheet metal and consisting of the opposite semicylindrical portions having the transverse parallel crimps extending to their outer edges and having an elevated portion uniting their inner edges and projecting above the plane of the outer edges of the blank, whereby to provide for the lapping of said outer edges in the production of the complete cylinder for use in forming the elbow, substantially as set forth.

3. A blank for a pipe-elbow provided in its opposite edges with inwardly-tapering crimps, the crimps in the opposite edges of the blank being in alinement, substantially as set forth.

4. A blank for a pipe-elbow having a central longitudinal upwardly-projecting portion, and provided on opposite sides of said projecting portion with the curved portions bent on equal arcs and opening in the direc-

tion in which the central projection extends, substantially as set forth.

5 5. A blank for a pipe-elbow provided at its opposite edges with the parallel curved portions and provided in said curved portions with inwardly-tapering crimps, the crimps in one edge of the blank being in an alinement

with crimps in the opposite edge, substantially as set forth.

EDWARD HERBERT SMITH.

Witnesses:

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