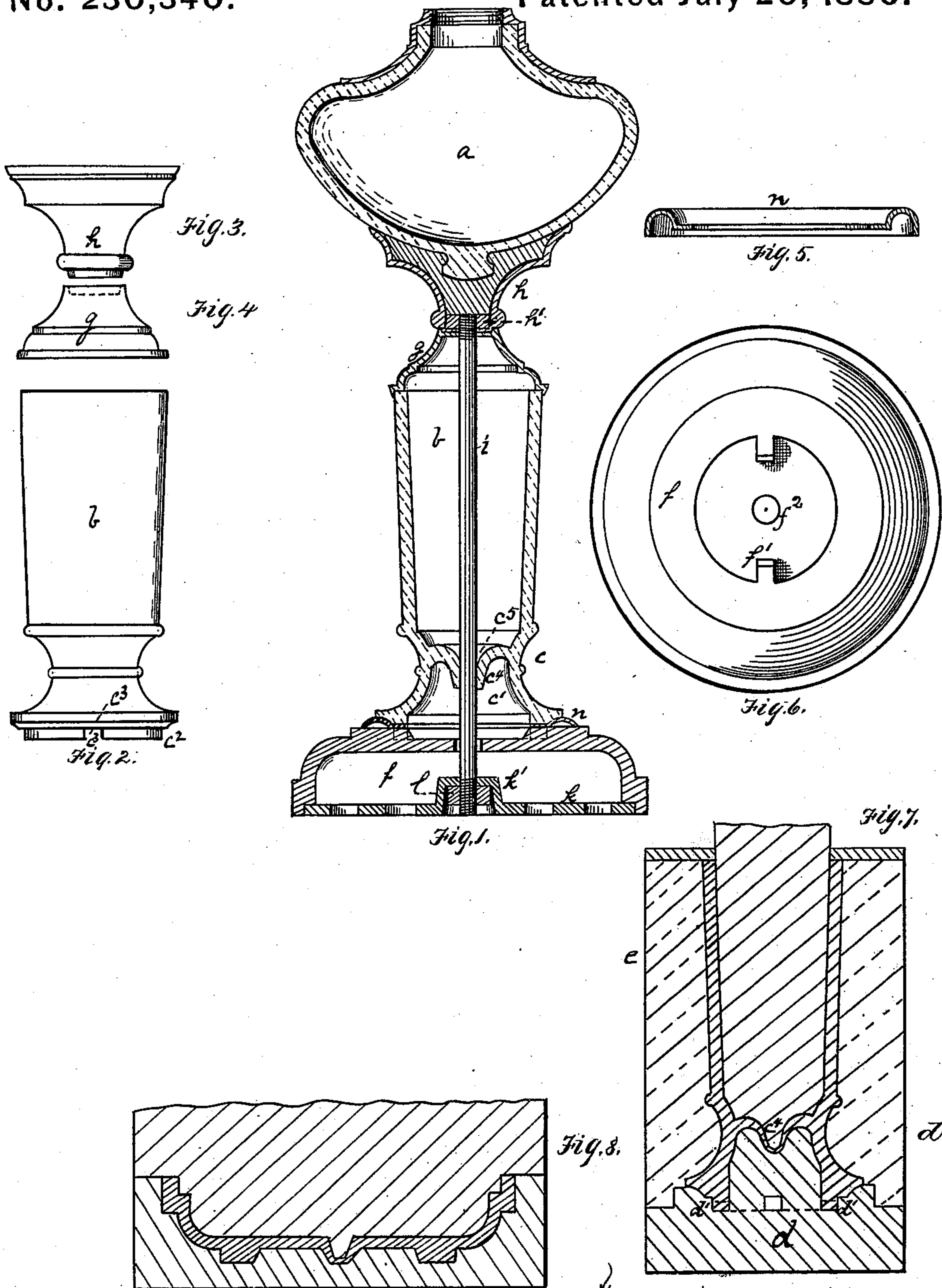


(No Model.)

D. C. RIPLEY.
Glass Lamp.

No. 230,340.

Patented July 20, 1880.



Witnesses.
Jno K Smith
L. C. Titler.

Inventor.
Daniel C. Ripley
by Bakewell & Kerr
Attorneys

UNITED STATES PATENT OFFICE.

DANIEL C. RIPLEY, OF PITTSBURG, PENNSYLVANIA.

GLASS LAMP.

SPECIFICATION forming part of Letters Patent No. 230,340, dated July 20, 1880.

Application filed May 14, 1880. (No model.)

To all whom it may concern:

Be it known that I, DANIEL C. RIPLEY, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented new and
5 useful Improvements in Glass Lamps; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, forming a part of this specification, in which—

10 Figure 1 is a vertical section of my improved lamp. Fig. 2 is a view of the stem portion. Figs. 3 to 6 are views of detached portions. Fig. 7 is a view of the stem-mold, and Fig. 8 is a view of the foot-mold.

15 My invention relates to that class of lamps having hollow glass stems; and it consists in the formation of a glass hollow stem in one piece with the cap or socket, and with a perforated diaphragm for the passage and sup-
20 port of the rod or bolt for attaching the bowl or foot to the stem, and in other details of construction, hereinafter more specifically set forth.

As heretofore constructed these lamps have
25 a hollow stem made of a plain glass cylinder and connected with the bowl and foot by means of interposed contracted metallic rings, caps, or sockets, the whole being united by a bolt extending centrally through them.

30 To enable others skilled in the art to make and use my invention, I will now describe the method of making the same.

The bowl *a* is of the usual construction. The stem *b*, with one of the sockets *c*, I form
35 by pressing in a suitable two or more part mold, the socket portion *c'* being made of suitable shape. The mold *d* is provided with projections *d'*, for forming the recesses *c³* in the base-ring *c²*, and a central recess for forming a
40 projection, *c⁴*. The mold *e* is placed upon the mold-section *d*, and the stem with its base is pressed therein in the usual manner, the plunger of the mold being provided with a suitable point for forming the projection *c⁴*. The
45 foot *f* is pressed in a suitable mold, *m*, and is provided with projections *f'*, which fit into the recesses *c³* when the parts are put together. It is made with a central hole, *f²*, which is formed by a projection upon the plunger. The
50 stem is provided at its upper end with a cap or socket piece, *g*, of metal, and the bowl *a* is

attached to a similar socket-piece, *h*, by means of plaster or in any other suitable manner. In the bottom of the socket-piece *h* is a nut, *h'*, in which the bolt *i* is screwed in making
55 the attachment to the stem. Between the foot *f* and the base *c* is a brass or other sheet-metal ring, *n*, for the purpose of giving finish to the lamp and of permitting the formation of a bet-
60 ter joint between these parts, the said ring having sufficient spring to cause the parts to come snugly together when the bolt is screwed up tight. In the bowl portion of the foot is a light flat casting, *k*, having a central recess, *k'*, to receive the nut *l*. This central recess is
65 provided with a hole for the passage of the bolt *i*. In order to form the hole *c⁵* for the passage of the bolt, the projection which is pressed there by the plunger is knocked
70 through by a suitable instrument. This forms a perforated diaphragm within the hollow stem and continuous therewith at the junction of the stem and base, and said diaphragm serves to center and support the rod or bolt
75 *i*, and prevent lateral displacement of the parts. The parts being placed in order, the nut *l* is screwed onto the bolt, and secures them firmly together.

It is evident that the upper socket may, if desired, be formed with the stem, and the lower
80 socket made up of the metallic cap-pieces.

By this invention I am enabled to reduce the cost of the manufacture of these lamps greatly, as by pressing the stem and socket-
85 piece I can form it for about the cost of forming the stem-piece alone heretofore, while I save the brass socket-pieces that are now used at one end of the stem.

The hollow stem may be ornamented in any of the ways known for the ornamentation of
90 vases or glassware, &c., as by painting and baking in the picture or design upon either the inner or outer faces of it, or by decalcomanie, or by pasting pictures thereon.

I am aware that the stems and feet of lamps
95 and like articles have heretofore been pressed in a single piece, and do not herein claim the same, for the reason that with such a construction the stems cannot be readily ornamented and the feet and stems cannot be formed of
100 glass of contrasting colors, and I am also aware that the bowls, stems, and feet or bases

of lamps and like articles have been formed in separate pieces for the purpose of ornamentation, and united by means of central rods and intermediate socket and cap pieces of metal, and do not herein claim the last-recited construction, for the reason that every additional metallic section employed in the construction of this class of lamps adds materially to the cost and labor of manufacture and reduces the strength and solidity of the article; but

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In a lamp or like article composed of a bowl, stem, and foot or base, said parts being separable, the combination, with the bowl and

foot or base, of a pressed hollow glass stem having a perforated diaphragm and one of the socket-pieces continuous with the stem, substantially as and for the purpose specified. 20

2. The combination of the hollow stem and socket formed in one piece with the foot having projections on one part adapted to take into recesses in the other part, substantially as and for the purpose described. 25

In testimony whereof I, the said DANIEL C. RIPLEY, have hereunto set my hand.

DANIEL C. RIPLEY.

Witnesses:

JAMES H. PORTE,
T. B. KERR.