No. 713,409. Patented Nov. 11, 1902.

R. C. DUGAN.

CHIMNEY TOP.

(Application filed Feb. 20, 1902.)

(No Model.)

Fig. 1

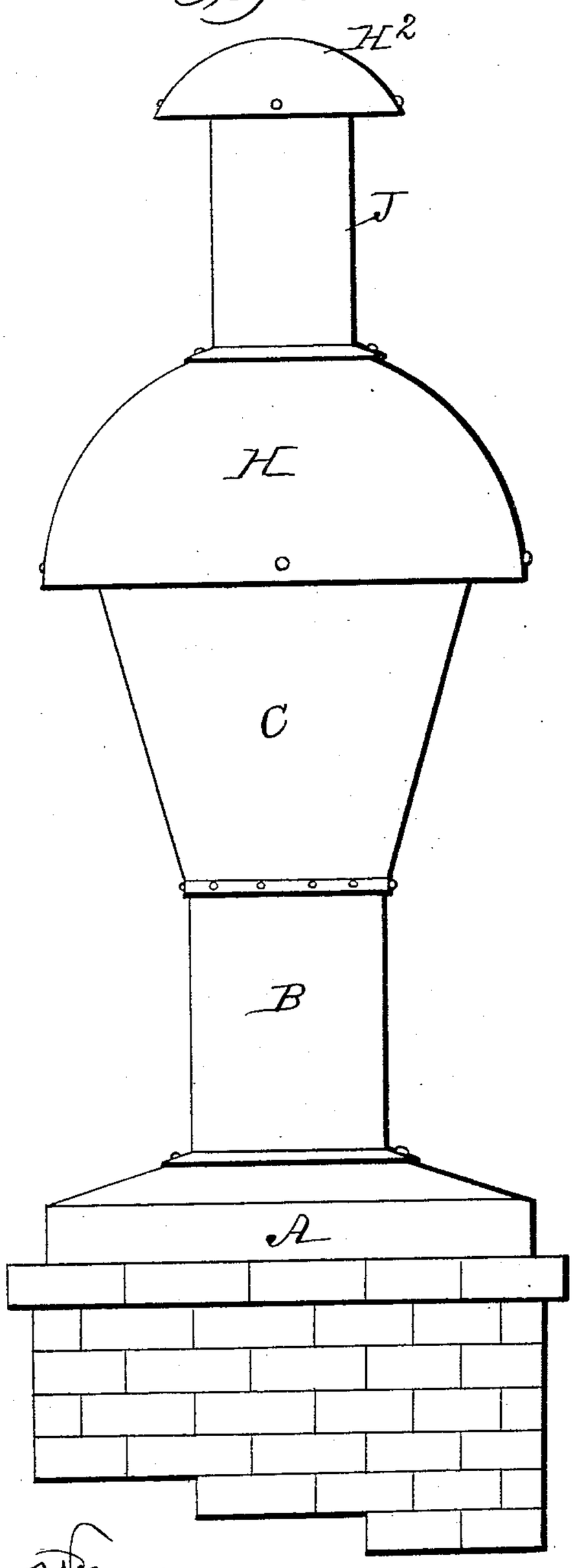
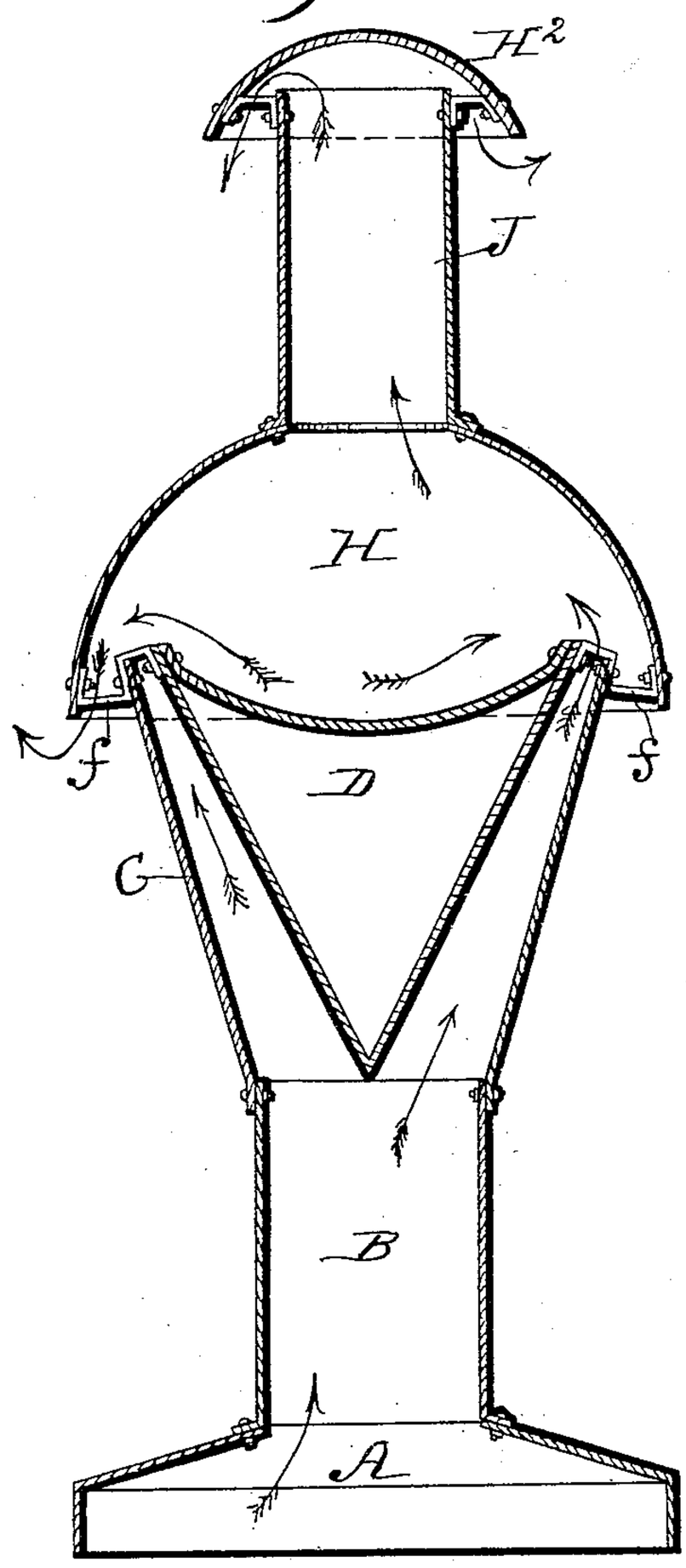


Fig. 2



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UNITED STATES PATENT OFFICE.

ROBERT C. DUGAN, OF IRVINGTON, IOWA.

CHIMNEY-TOP.

SPECIFICATION forming part of Letters Patent No. 713,409, dated November 11, 1902.

Application filed February 20, 1902. Serial No. 94,897. (No model.)

To all whom it may concern:

Be it known that I, ROBERT C. DUGAN, a citizen of the United States, residing at Irvington, in the county of Kossuth and State of Iowa, have invented a new and useful Chimney-Top, of which the following is a specification.

My object is to prevent the annoyances incident to wind pressing smoke downward in chimneys and interfering with combustion of fuel in stoves and furnaces and fouling the atmosphere in a dwelling with smoke and fumes that are deleterious to comfort and health.

My invention consists in a chimney-top that is light, strong, durable, and ornamental, that will increase the draft of a chimney when the wind blows, prevent wind, rain, and snow from entering the chimney, and aid ventilation of a building by drawing up smoke, fumes, and foul air in fair and foul weather, and is constructed as hereinafter set forth, pointed out in my claim, and illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of the top fitted and fixed on a chimney as required for practical use. Fig. 2 is a vertical central sectional view showing the forms and relative positions of the different parts and the manner of connecting them.

The letter A designates the base of the top, adapted in size and shape to be fixed on top of a chimney. A cylindrical extension B is fitted and fixed to the top and center of the part A, and C is a cone-shaped enlargement fitted and fixed to the top of the part B by seaming, soldering, riveting, or in any suitable way. An inverted cone D is fixed in the top of the cone-shaped enlargement C by means of brackets made of flat metal bars *f*, bent into shape, as shown in Fig. 2, and fastened by means of bolts and nuts, rivets, or in any suitable way, as required, to retain the inverted cone in concentric position with the parts B and C and to provide an annular space between the two parts for the passage of smoke upward, as indicated by arrows in Fig. 2. The fixed top of the cone is concave and deflects wind outward, as indicated by arrows in Fig. 2. A semispherical hood H is fixed to the outer ends of the brackets *f* by means of bolts and nuts or in any suitable way to serve as a roof to prevent rain, snow, and wind from passing down through the top and chimney. It is also larger in diameter than the top of the part C and extends below the top portion of it, as clearly shown in Fig. 2, and serves as a deflector, and when winds strike it the force is distributed downward and produces suction, that will draw smoke upward through the annular space between the cone-shaped parts C and D and out from under the hood, as indicated by arrows in Fig. 2 and as required to increase the draft of the chimney. A tubular extension J of smaller diameter than the part B is fixed over a central aperture in the hood H, and a hood H^2, corresponding in shape with the hood H, is fitted and fixed to the extension J to operate in the same manner as the hood H and aid in increasing the draft of the chimney and to prevent rain, snow, and wind from entering the chimney.

It is obvious the complete top can be made of galvanized sheet-iron or other suitable material and vary in size, as required, to be fixed on chimneys of different sizes.

Having thus described the purpose, construction, arrangement, and combination of the different parts of my invention, its practical operation and utility will be readily understood by persons familiar with the art to which it pertains, and

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

A chimney-top comprising a base, a cylindrical extension fixed to the base, a cone-shaped enlargement fixed to the upper end of said extension, brackets fixed to the upper end of said extension, brackets fixed to the upper end of said enlargement, an inverted cone fixed to the brackets and provided with a concave deflector in its large end, a semispherical hood fixed to the brackets, a cylindrical extension at the top of the hood and a hood fixed over the top of said extension, arranged and combined to operate in the manner set forth.

ROBERT C. DUGAN.

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