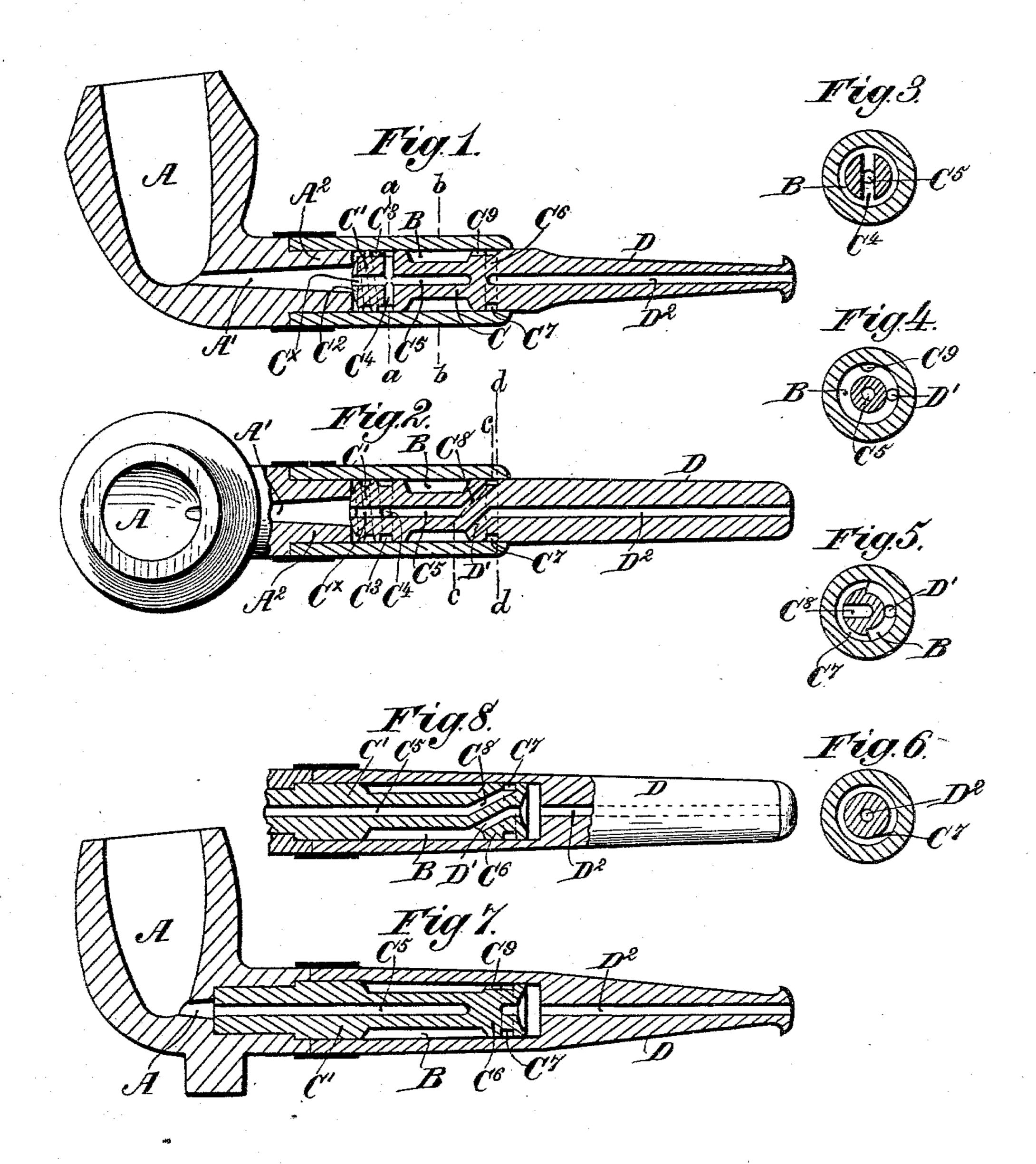
(No Model.)

F. W. SCHROEDER. TOBACCO PIPE.

No. 565,183.

Patented Aug. 4, 1896.



Witnesses. Shot Greett, Thos. a. Grun Treventor.

Frederick W. Schroeder.

By James L. Norrige

Atty.

United States Patent Office.

FREDERICK WILLIAM SCHROEDER, OF NEWTOWN, NEW SOUTH WALES, ASSIGNOR TO HUGH DIXSON, OF SYDNEY, NEW SOUTH WALES.

TOBACCO-PIPE.

SPECIFICATION forming part of Letters Patent No. 565,183, dated August 4, 1896.

Application filed March 23, 1895. Serial No. 543,303. (No model.) Patented in England March 18, 1895, No. 5,644.

To all whom it may concern:

Be it known that I, FREDERICK WILLIAM SCHROEDER, engineer, a naturalized subject of the Queen of Great Britain, residing at Newtown, near Sydney, in the British Colony of New South Wales, have invented new and useful Improvements in Smoking-Pipes, (for which I have obtained Letters Patent in Great Britain No. 5,644, dated March 18, 1895,) of which the following is a specification.

This invention relates to certain improvements in smoking-pipes, whereby they may be almost instantly thoroughly cleansed of all fluid or other matter, and therefore insure a comfortable and healthy smoke, and at the same time be manufactured cheaply.

The essential feature of my invention consists in a plug, with scraper-heads, adapted to fit an enlarged chamber in the smoke-passage and having certain peculiarly-arranged passages, grooves, and ports so constructed as to allow the ready passage of the smoke, but prevent liquid or other matter from reaching the mouthpiece-orifice, as hereinafter more particularly described with reference to the accompanying drawings, wherein—

Figures 1 and 2 are sectional elevation and sectional plan views, respectively, of a smoking-pipe constructed according to my invention. Figs. 3, 4, 5, and 6 are cross-sectional views on lines a, b, c, and d, respectively, of Figs. 1 and 2; and Figs. 7 and 8 are similar views to Figs. 1 and 2, but of a slight modification, wherein the plug instead of being formed integral with the mouthpiece is fitted tightly into the bowl end, which practically makes

no difference.

The bowl A of the pipe is made, as ordinarily, of wood, clay, meerschaum, or other suitable material, with orifice or channel A' and with bowl A², having suitable connection to a chamber B of suitable material, preferably impervious to moisture, and preferably such as vulcanite, ebonite, and the like. This chamber B, as in Figs. 1 and 2, may be an independent casing or tube fitting tightly on the bowl end A² and having the mouthpiece-plug C fitting within it, or it may, as in Figs. 7 and 8, be made integral with the mouth-piece D and fit over the scraper-heads of plug

C, which plug is in such case fitted tightly in the bowl end A^2 .

In the pipe shown in Figs. 1 to 6 the scraperhead C' has around it a helical channel C3, having connection by channels C² or by a 55 space with the bowl-orifice A' and by holes or channels C4 with the central passage C5 of the plug or stem. The scraper-head has a groove or hollow channel C7, connected by an inclined channel or passage C8 with the cen- 60 tral passage C5 of the plug and connected by port or niche or opening C9 with the chamber B. The bowl-orifice A', in addition to the connection with the central passage C⁵ by means of helical channel C³ and holes C⁴, 65 may have and preferably has connection CX through the scraper-head C' to said passage C⁵. In use the smoke from bowl A is drawn through plug C into chamber B by way of opening C× and helical channel C³ and holes 70 C4, the central channel or passage C5, channel or passage C⁸, and port or niche C⁹. In this chamber B any moisture or condensation is deposited, and the smoke passes to the mouth by way of inclined passages D' and central 75 draw-off passage D2, and no excess moisture or saliva can commingle with nicotine-oil in suck-passages D' and D2, as the nicotine-oil cannot pass out of chamber B until the plug C is removed, when the scraper-heads clear 80 the chamber, and if both parts of the pipe be slightly shaken any remaining moisture, saliva, or nicotine will be entirely removed.

In the slight modification shown in Figs. 7 and 8, the plug C, instead of being formed in-85 tegral with the mouthpiece, is fitted tightly in the bowl end A², and the casing of chamber B, being part of the mouthpiece D, fits over the scraper-heads C' and C⁶ thereon. The scraper-head C⁶, as in Figs. 1 and 2, has 90 a groove or hollow channel C⁷ connected by an inclined channel or passage C⁸ with the central passage C⁵ of the plug, and connected by port or niche or opening C⁹ with the chamber B, from which the smoke is drawn through 95 inclined passage D' to the central draw-off passage D² and mouthpiece-orifice, as hereinbefore described.

The pipe is cleared of any extraneous matter by simply removing the mouthpiece D, 100

(and consequently the casing of the chamber B,) and if both parts be slightly shaken any remaining moisture is entirely removed and

the pipe rendered sweet and pure.

With pipes manufactured according to my invention there is but little opportunity of the material of the pipe or bowl becoming impregnated with nicotine-oil, as the stem and mouthpiece are, as before stated, prefer-10 ably constructed of impervious material.

Having described my invention, what I

claim is—

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1. In a smoking-pipe, the combination with a bowl and mouthpiece provided respectively 15 with central smoke-passages A' and $ilde{
m D}^2$ and an enlarged chamber intermediate said smokepassages, of a plug arranged within said chamber and provided at its opposite ends with scraper-heads C', C6, the space between 20 said heads communicating with the smokepassage A' by a central passage C5, inclined channel C⁸, peripheral groove C⁷ and port C⁹,

and said chamber communicating with the smoke-passage D² by an inclined passage D.

substantially as described.

2. In a smoking-pipe, the combination with a bowl and mouthpiece provided respectively with central smoke-passages A' and D' and an enlarged chamber intermediate said smokepassages, of a plug arranged within said 30 chamber and provided at its opposite ends with scraper-heads C', C⁶, the space between said heads communicating with the smokepassage A' by a helical channel C3, transverse passages C⁴, a central passage C⁵, an inclined 35 passage C⁸, peripheral groove C⁷ and port C⁹. and said chamber communicating with the smoke-passage D² by an inclined passage D'. substantially as described.

Dated this 2d day of February, 1895. FREDERICK WILLIAM SCHROEDER.

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Witnesses:
FRED WALSH, THOMAS JAMES WARD.