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UNITED STATES PATENT OFFICE.

DONALD B. BRADNER AND NICHOLAS E. OGLESBY, OF EDGEWOOD, MARYLAND.

PROCESS OF PRODUCING SMOKE CLOUDS FROM MOVING AIRCRAFT.

Application filed May 8, 1925. Serial No. 28,981.

falls. This is an improvement over the present means of generating smoke screens wherein the smoke material is dropped to the ground in containers or else is set out the ground in containers or else is set out the ground in containers or else is set out the ground in containers or else is set out the ground in containers or else is set out the ground in containers or else is set out the ground in containers or else is set out the ground in containers or else is set out the ground in containers or else is set out the ground in containers or else is set out the ground in containers or else is set out the ground in the air but react with one or more constituents of the air to form 70 substantially stable products.

sideration of the following description when taken in conjunction with the accompanying drawing.

When a liquid is dropped from an elevation at rest with respect to the air it will fall to the ground in the form of stable drops. If, however, the liquid be dropped from a body moving at high velocity, the liquid will immediately upon release become broken up into a mist and all of the liquid or a considerable portion thereof will be dispersed in the air and not reach the ground. By ejecting the liquid under pressure from an aeorplane or other moving aircraft so that the liquid leaves the plane at approximately the same velocity as the plane passes through the air but in a substantially opposite direction, the liquid will fall as if poured from an elevation at rest, and travels to the ground in substantially stable drops. The present invention makes

This invention relates to a process of This invention is not limited to any class spraying or sprinkling smoke-producing of smoke-producing liquids and may also be liquids from bodies moving with a high velocity and has more specific application to The success and effectiveness of the smoke 60 velocity and has more specific application to
the sprinkling of smoke-producing liquids
from aircraft, such as aeroplanes, dirigibles, etc.

Among the objects of this invention is
the provision of a process whereby smokeproducing liquids may be dropped from aircraft, wherein the liquid reacts with one or
more of the constituents of the air or atmosphere and generates a smoke screen as it
falls. This is an improvement over the

the ground in containers or else is set out on the ground, and wherein the success of other moving aircraft so that the liquid the operation of producing the screen is leaves the plane at approximately the same velocity as the plane passes through the air but in a substantially opposite direction, the liquid falls in the form of relatively the same velocity as the plane passes through the air but in a substantially opposite direction, the liquid falls in the form of relatively the same velocity as the plane as a process which may be emptored in the form of relatively the same velocity as the plane as a process. A further object of this invention is the provision of a process which may be employed for laying screens of smoke from aeroplanes to protect the planes from antiaeroplanes to protect land fortifications, troops, or ships from enemy fire.

A still further object of this invention is the provision of a process for producing long and extensive fronts of smoke in an economic, safe and rapid manner.

Other, further and more specific objects of the invention will become readily apparent to persons skilled in the art from a con-

or the invention will become readily apparent to persons skilled in the art from a consideration of the following description when taken in conjunction with the accompanying ratus which is suitable for carrying out our ratus which is suitable for carrying out our