

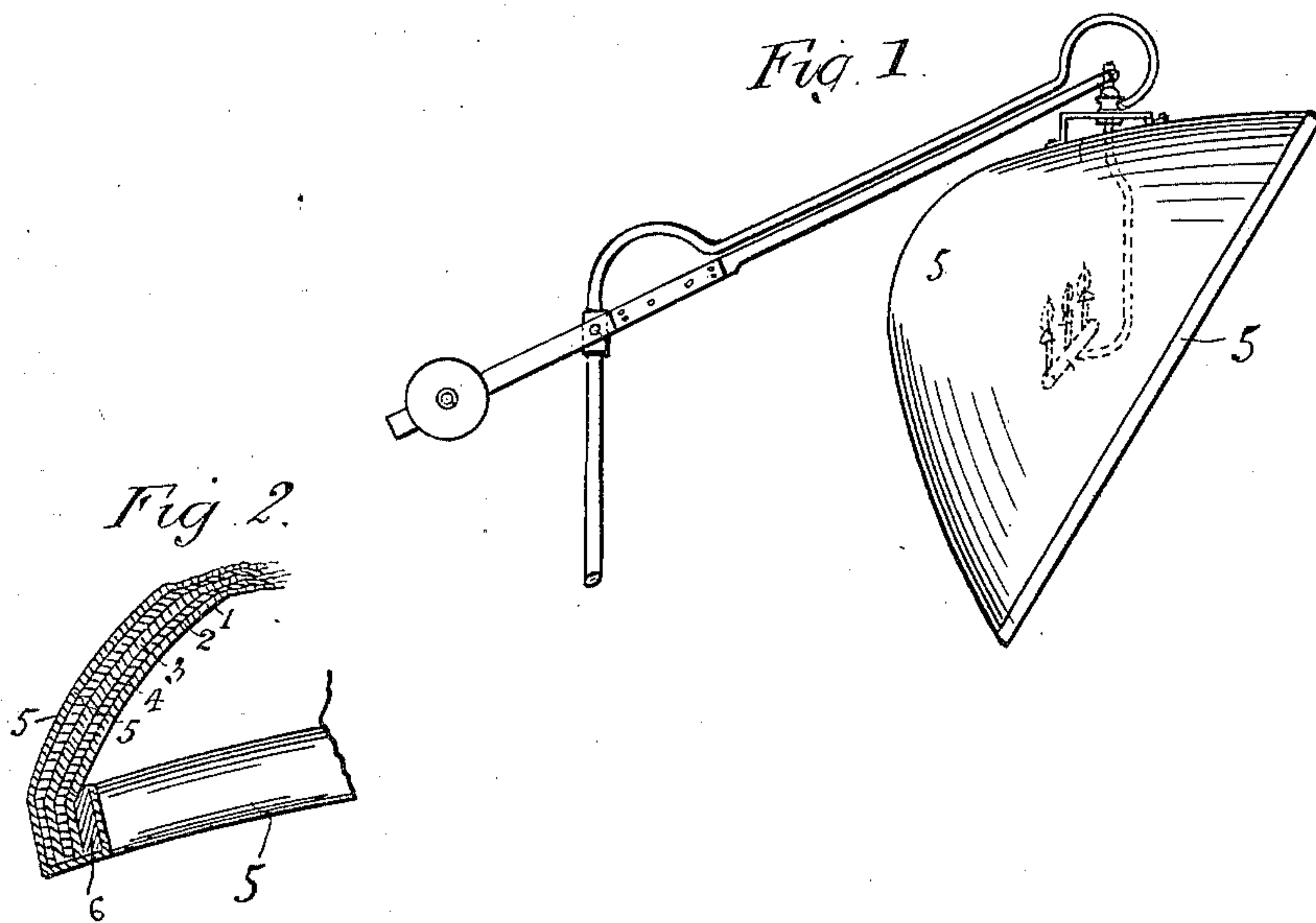
No. 652,204.

Patented June 19, 1900.

A. G. ADAMSON.
GAS PHOTOGRAPHING APPARATUS.

(Application filed Feb. 27, 1900.)

(No Model.)



Witness:
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UNITED STATES PATENT OFFICE.

ANDREW GEORGE ADAMSON, OF LONDON, ENGLAND.

GAS PHOTOGRAPHING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 652,204, dated June 19, 1900.

Application filed February 27, 1900. Serial No. 6,749. (No model.)

To all whom it may concern:

Be it known that I, ANDREW GEORGE ADAMSON, electrical engineer, of Dashwood House, 9 New Broad street, London, England, have
5 invented certain new and useful Improvements in Reflectors for Photographing by Means of Gas, of which the following is a specification.

In order that my invention may be fully
10 understood, I will proceed to describe it with reference to the accompanying drawings, in which—

Figure 1 is a front elevation of a reflector suspended from a beam. Fig. 2 is a detail
15 section showing the construction of the reflector.

The chamber or reflector I propose to use may be of any convenient shape, but is composed of various alternate layers of a suitable
20 cloth material and paper drawn to the required shape over a mold of metal, cement, or other suitable material and retained in position until thoroughly dry. I show my reflector suspended from a beam similar to that represented in my copending application, Serial
25 No. 4,748, of same date, for Letters Patent for improvements in apparatus for photographing by means of gas. I make the reflector in the following manner: The mold
30 being made of any suitable material and shape, its external or convex surface is prepared to receive the first layer of cloth or canvas by placing around the periphery a wooden ring shaped on its upper edge. The cloth
35 having been immersed in any suitable fluid to render it fireproof is laid across the mold and stretched in all directions until all creases or folds are removed and held in place in any suitable manner. Then while still wet paper
40 in sheets is pasted or otherwise fixed over its entire surface (this paper having been previously expanded by damping.) An-

other sheet of cloth is similarly treated and stretched over the layer of paper, the paper having been coated on its outer surface with
45 paste or other adhesive substance to receive the cloth. Then the second cloth is covered with paper, as before, then cloth, as before, until the desired thickness of material is produced, when either heat is applied or the mass
50 is left to dry spontaneously. When dry, all the material is cut neatly around by the under edge of the wood ring, except the outer layer of cloth. This is retained until the reflector is taken off the mold. It is then drawn inside
55 and secured in any suitable way to the inside of the wood ring, thus securing the whole of the material to the ring, which supports it at its outer edge.

V is the wooden supporting-ring on the
60 inner rim of the reflector, while 1, 2, 3, 4, and 5 are respectively alternate layers of cloth and paper. It will be observed that the layer of cloth 5, which is the outside one, envelops the whole and is brought around the wooden
65 ring V to the inside thereof and secured by any convenient method, such as gluing or pasting, &c. The cloth and paper are respectively chosen with a view to their
70 respective properties of expansion and contraction when wet and when dry.

Having thus described my invention, the following is what I claim as new therein and desire to secure by Letters Patent:

A reflector comprising alternate layers of
75 fireproof cloth and paper, and a ring; the edge of the outer layer extending around the ring and secured to the inside thereof.

In testimony whereof I have affixed my signature in presence of two witnesses.

ANDREW GEORGE ADAMSON.

Witnesses:

JOHN LIDDLE,
EDITH MARY EDMONDSTONE.