

No. 667,478.

Patented Feb. 5, 1901.

A. WOLF.
HOP DRYING BOX.

(Application filed Oct. 18, 1900.)

(No Model.)

Fig. 1.

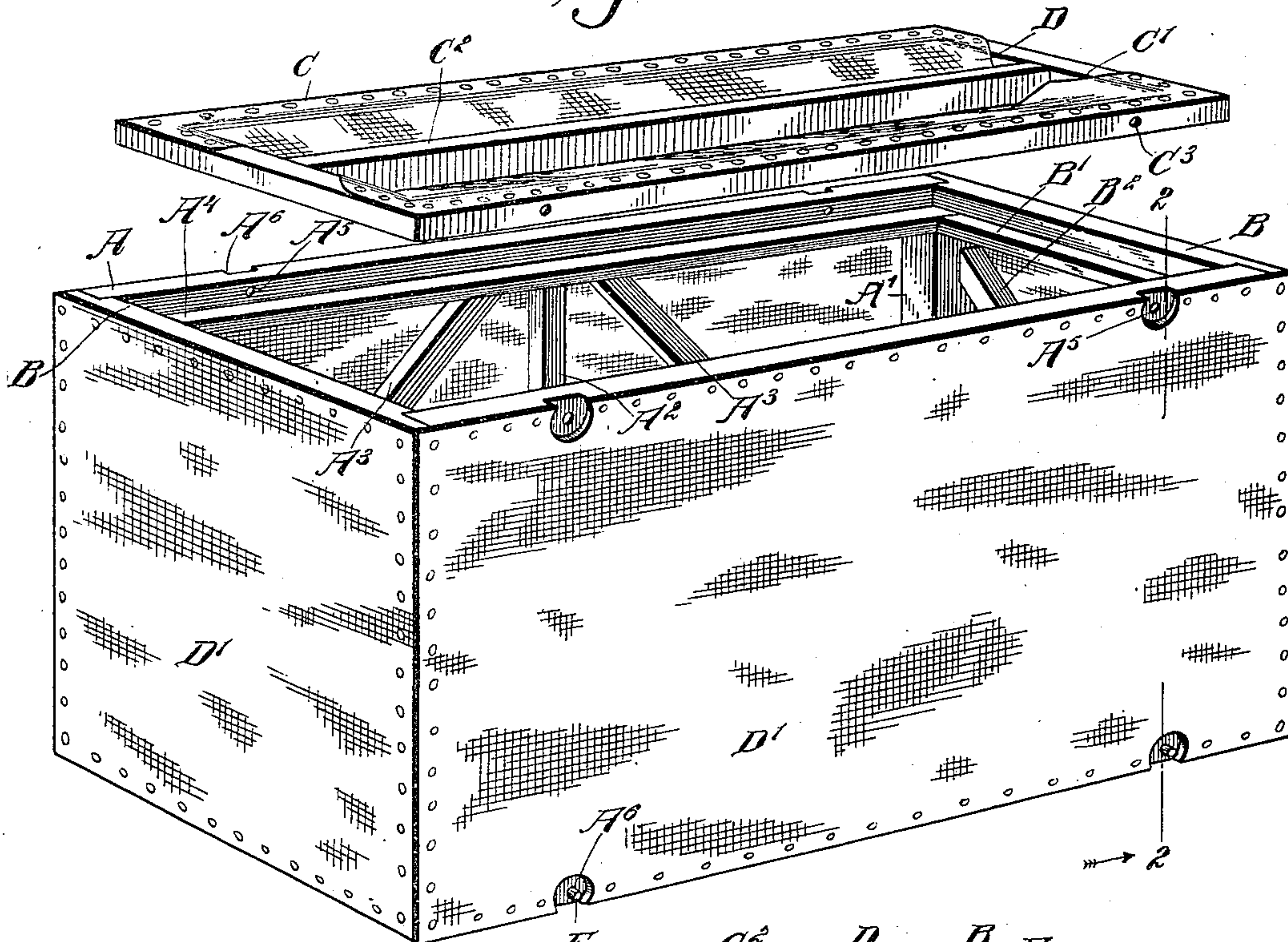
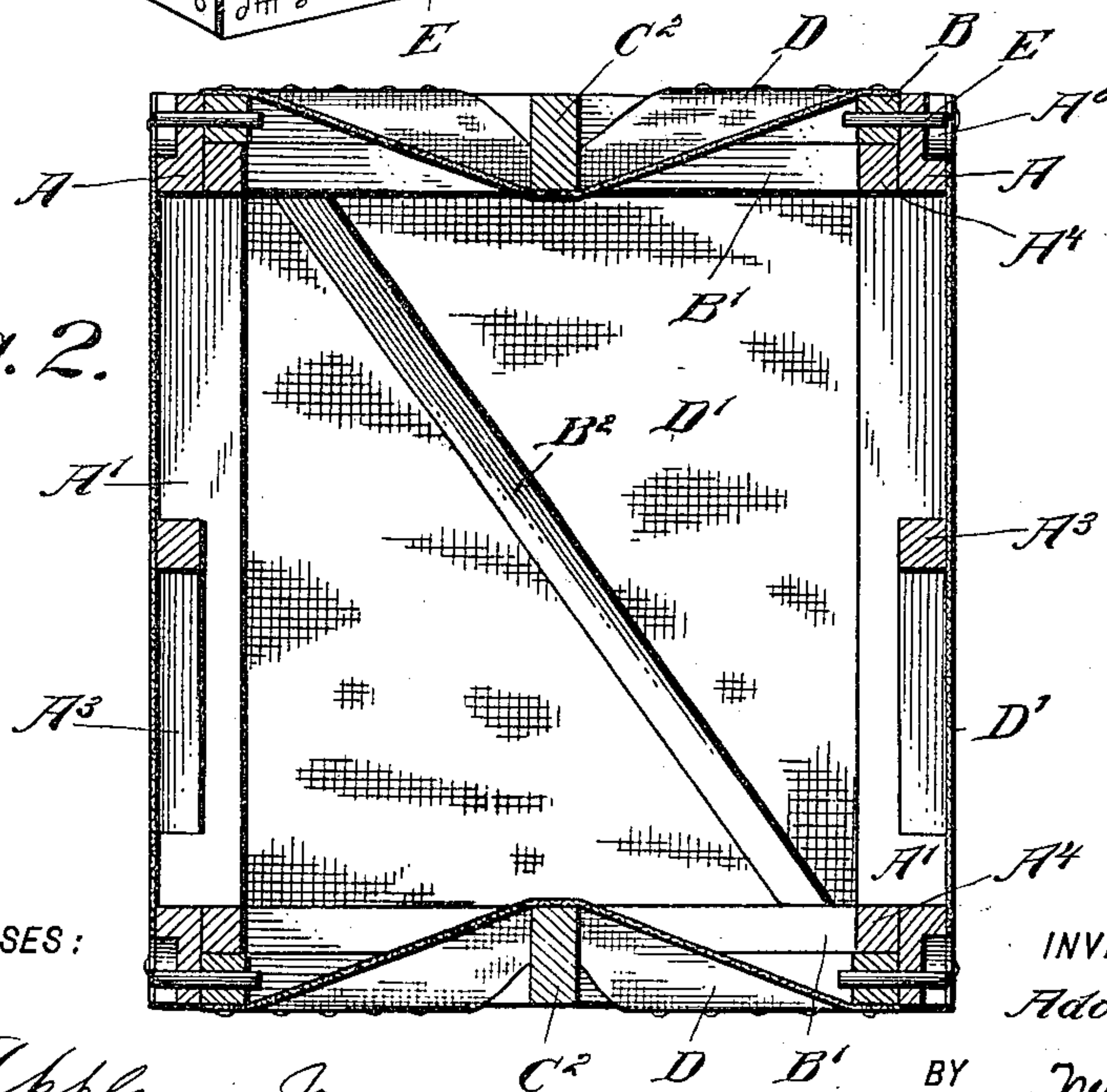


Fig. 2.



WITNESSES:

A. R. Applemann
John Lotka

INVENTOR

Adolf Wolf

BY

Wm. L. ...

ATTORNEYS

UNITED STATES PATENT OFFICE.

ADOLF WOLF, OF SILVERTON, OREGON.

HOP-DRYING BOX.

SPECIFICATION forming part of Letters Patent No. 667,478, dated February 5, 1901.

Application filed October 18, 1900. Serial No. 33,485. (No model.)

To all whom it may concern:

Be it known that I, ADOLF WOLF, a citizen of the United States, and a resident of Silver-
ton, in the county of Marion and State of Ore-
gon, have invented a new and Improved Hop-
Drying Box, of which the following is a full,
clear, and exact description.

My invention relates to boxes for holding
loose material, such as hops, in the process
of drying the same, and has for its object to
provide a construction which permits the box
to be readily turned upside down without dis-
charging the contents thereof and while leav-
ing the top open for a thorough evaporation
and escape of steam. For this purpose I pro-
vide the box with a removable top and a re-
movable bottom, constructed and secured in
a novel manner, as will be fully described
hereinafter, and particularly pointed out in
the appended claim.

Reference is to be had to the accompanying
drawings, forming a part of this specification,
in which similar characters of reference indi-
cate corresponding parts in both the figures.

Figure 1 is a perspective view of a drying-
box constructed according to my invention
with the top raised off the body, and Fig. 2
is a cross-sectional elevation on line 2 2 of
Fig. 1.

The improved drying-box has the shape of
a rectangular prism, and comprises a skele-
ton frame for each of its walls. The frame
comprises horizontal top and bottom bars A
for the sides, upright end bars A', a central
bar A², diagonal braces A³, extending from
the top bar A to the end bars A', and longi-
tudinal seating-bars A⁴, secured to the bars
A upon the inside thereof and at a distance
from the top or bottom surfaces of said bars.
It will be seen by reference to Fig. 2 that the
upright end or corner bars A' are about twice
as thick as the other frame-bars. The seat-
ing-bars A⁴ might be formed integral with
the bars A. The ends of the frame comprise
top and bottom bars B set on the corner-bars
A' and provided with seating strips or bars
B', which may be integral with the bars B,
and with diagonal braces B², connecting said
bars B. The parts so far described are rig-
idly connected and form a rectangular box-
body, open at the bottom and at the top.

The top and bottom are constructed alike,

and each of them consists of a rectangular
skeleton frame having side bars C and end
bars C', these being adapted to fit between
the bars A B and to become seated on the
bars or strips A⁴ B', so that the outer surfaces
of the top or bottom will be substantially
flush with those of the box-body.

The top and bottom are provided with a
longitudinal central bar C², and a ventilating-
covering D of sackcloth or other open-meshed
or pervious material is secured to the top and
bottom frame upon the outside, and passes
in contact with the inner face of the central
bar C², so that said ventilating covering forms
two inclined inwardly-converging portions,
thus increasing the surface. A similar ven-
tilating-covering D' is placed around the box-
body.

To removably secure the top and bottom to
the box-body, I provide the side bars C of
the top and bottom and the side bars A of the
box-body with apertures C³ and A⁵, respec-
tively, adapted to register and to receive slid-
able connecting-pins E. To render the outer
ends of these pins readily accessible, I prefer
to provide the bars A with recesses A⁶.

In operation the box, closed at the bottom
and open at the top, is filled with the material
to be dried, as hops, and is then placed (open
at the top) in the drying-kiln. The heat will
drive out the moisture, which escapes as steam
or vapor partly through the covering D', but
mostly through the open top of the box. The
heating medium has good access to the hops
or other material through the ventilating-cov-
erings D and D'. After the drying has pro-
gressed for a certain time the top is put on the
open box-body, and the pins E are inserted
in the apertures A⁵ and C³ to securely con-
nect the top with the box-body. Then the
box (which is now closed) is turned upside
down, and the bottom (which is now at the
top) is removed after withdrawing the pins E,
which hold it to the box-body. The box is
therefore again open at the top, and evapora-
tion and drying are now continued, the heat-
ing agent passing through the material in the
opposite direction to that during the first
stage, so that a quick and thorough drying is
obtained. I find that by the use of the above-
described improved box in the manner set
forth I can effect a saving of one-third of the

time required for drying hops according to the ordinary procedure. My invention therefore accomplishes a saving of time, labor, fuel, and money.

5 Various modifications may be made without departing from the nature of my invention as defined in the claim.

Having thus described my invention, I claim as new and desire to secure by Letters

10 Patent—

A drier-box comprising a reversible body open at the top and at the bottom and having ventilated sides and ends, a ventilated top and bottom adapted for separable attach-

ment to said body, the top as well as the bot- 15
tom comprising a skeleton frame with a central bar, and an apertured covering secured on the outside of the frame and passing on the inside of said central bars to form inwardly-converging inclined surfaces. 20

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ADOLF WOLF.

Witnesses:

LOUIS J. ADAMS,

MAURICE VAN VALKENBURG.