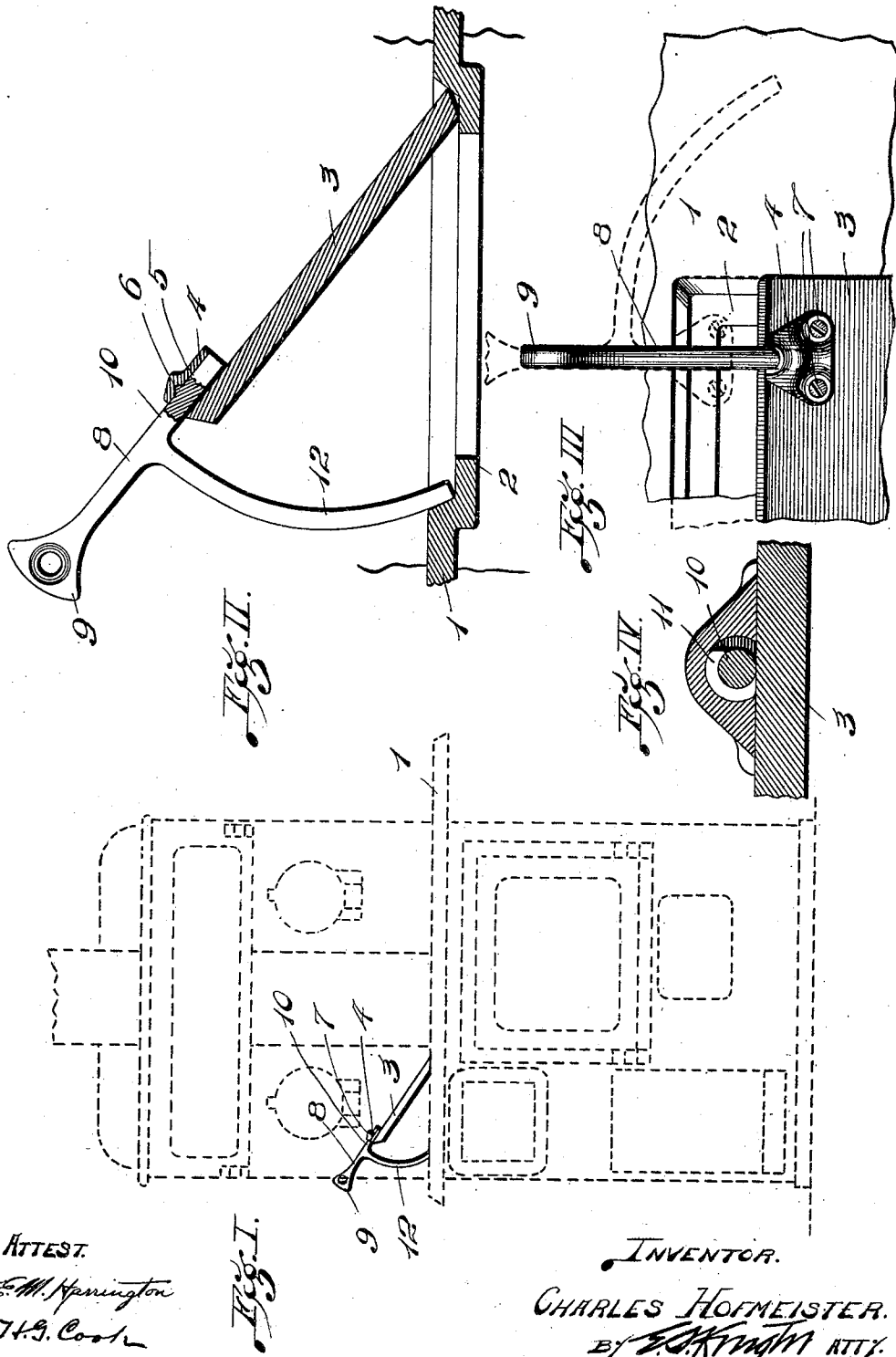


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LIFT FOR STOVE TOP PLATES.
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922,428.

Patented May 18, 1909.



ATTEST.
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UNITED STATES PATENT OFFICE.

CHARLES HOFMEISTER, OF BELLEVILLE, ILLINOIS, ASSIGNOR TO BELLEVILLE STOVE & RANGE COMPANY, OF BELLEVILLE, ILLINOIS, A CORPORATION.

LIFT FOR STOVE TOP PLATES.

No. 922,428.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CHARLES HOFMEISTER, a citizen of the United States of America, residing in Belleville, county of St. Clair, and State of Illinois, have invented certain new and use Improvements in Lifts for Stove Top Plates, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to a lift for elevating and holding in a tilted position the front or fire box lid plates of stoves or ranges for the purpose of providing access to the fire in the fire box to permit of broiling or toasting operations being carried on beneath the plates and above the fire in the fire box.

Figure I is an elevation of a cooking stove or range illustrated in dotted lines, and the front top plate and my lift illustrated in full lines, the front top plate being shown supported by the lift. Fig. II is in part an enlarged vertical cross section taken through a fragment of the stove top and the front top plate, and in part an elevation of the lift. Fig. III is a top or plan view of the members shown in Fig. II. Fig. IV is an enlarged cross section through a portion of the front top plate, the cap thereon, and the inner arm of the lift seated in said cap, the parts being shown as they appear when the top plate is in raised position.

In the accompanying drawings, 1 designates the top of a range or stove provided at its forward end with an opening that is surrounded by a flange 2 upon which the front top plate 3 that receives the ordinary lids rests when in its normal position. The front top plate has mounted thereon, near its front edge, a cap 4 provided at its lower side with a longitudinal groove 5 and also with a transverse groove 6, (see Fig. II.) The cap 4 is secured to the top plate by any suitable means, such as bolts or screws 7, (see Fig. III.)

8 designates a lift lever that is provided at its outer end with a handle 9 and at its inner end with a stem 10 loosely seated in the longitudinal groove in the cap 4 so as to be rockable therein. The stem of the lever 8 is provided with a transverse stop lug 11, of segmental shape, and which extends partially around said stem, as seen in Fig. IV. This stop lug is loosely seated in the transverse groove 6 at the inside of the cap 4 and

it is of service in preventing the longitudinal movement of the stem 10 in the cap, also as a member for limiting the degree of rotation of said stem and consequently of the lever 8.

12 is a supporting arm projecting transversely from the lever 8 and preferably of curved shape, as shown in the drawings.

In the practical use of my stove top plate lift or tilting device, the lever 8 normally occupies a position that causes its supporting arm 12 to rest upon the top of the stove near one end of the top plate when the top plate is at rest, as indicated in dotted lines in Fig. III. When the top plate is to be tilted, the handle 9 of the lever 8 is grasped and elevated, and simultaneously with this action, the lever is partially rotated until the supporting arm 12 is in a perpendicular position, as seen in Figs. I and II. The lower end of this supporting arm is then lowered so that it will rest upon the flange 2, as seen in Fig. II, to support the top plate in its elevated and tilted position. When the lift has been moved so that the supporting arm 12 is in a perpendicular position, the stop lug 11 is in engagement with the surface of the top plate beneath the cap 4, as seen in Fig. IV, so that further rotation of the lift is prevented, thereby preventing the supporting arm from moving past the lid center to permit of the arm losing its supporting action due to continued rotation of the stem of the lever in the cap 4.

I claim:—

1. The combination with the top plate of a stove, of a lift rotatably fitted to said plate and comprising a lever and a supporting arm extending transversely from said lever, the supporting arm being adapted to engage the top plate of the stove.

2. The combination with the top plate of a stove, of a cap secured to said top plate, a lift lever rotatably mounted in said cap, and a supporting arm extending transversely from said lever, the supporting arm being adapted to engage the top plate of the stove.

3. The combination with the top plate of a stove, of a cap secured to said plate, a lever rotatably mounted in said cap, and provided with a stop to limit its rotation, and a supporting arm extending transversely from said lever, the supporting arm being adapted to engage the top plate of the stove.

4. The combination with the top plate of a stove, of a cap secured to said plate, a lever

having a stem rotatably fitted in said cap and provided with a stop lug to limit its rotation, and a supporting arm extending transversely from said lever, the supporting arm being adapted to engage the top plate of the stove.

5 5. The combination with the top plate of a stove, of a cap secured to said plate and provided with a longitudinal groove and a transverse groove at its under side, a lever having
10 a stem rotatably fitted in said longitudinal

groove, the stem being provided with a stop lug arranged in said transverse groove, and a supporting arm extending transversely from said lever, the supporting arm being adapted to engage the top plate of the stove.

CHARLES HOFMEISTER.

In the presence of—

WM. M. HOPPE,

W. C. ANDET.