

(No Model.)

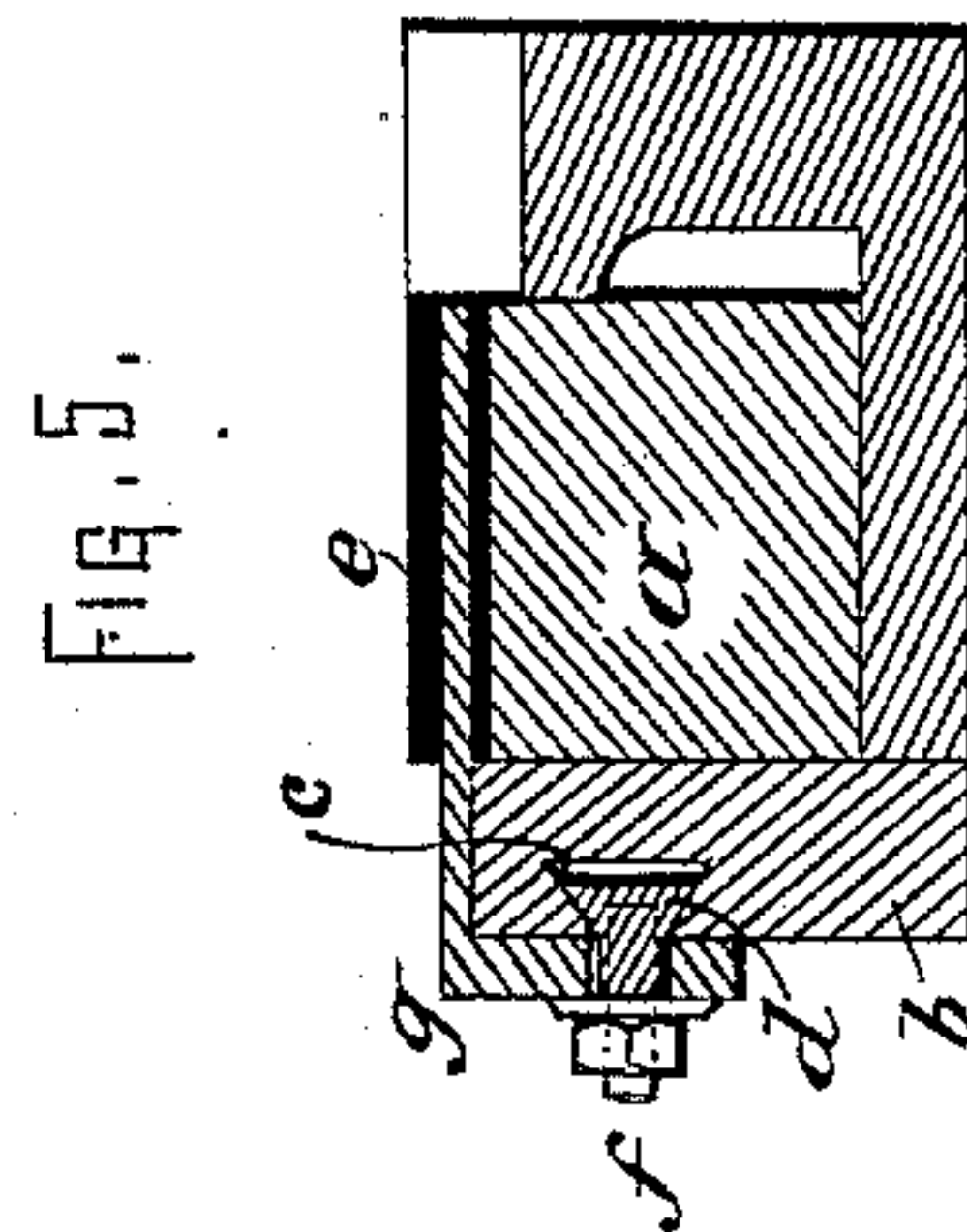
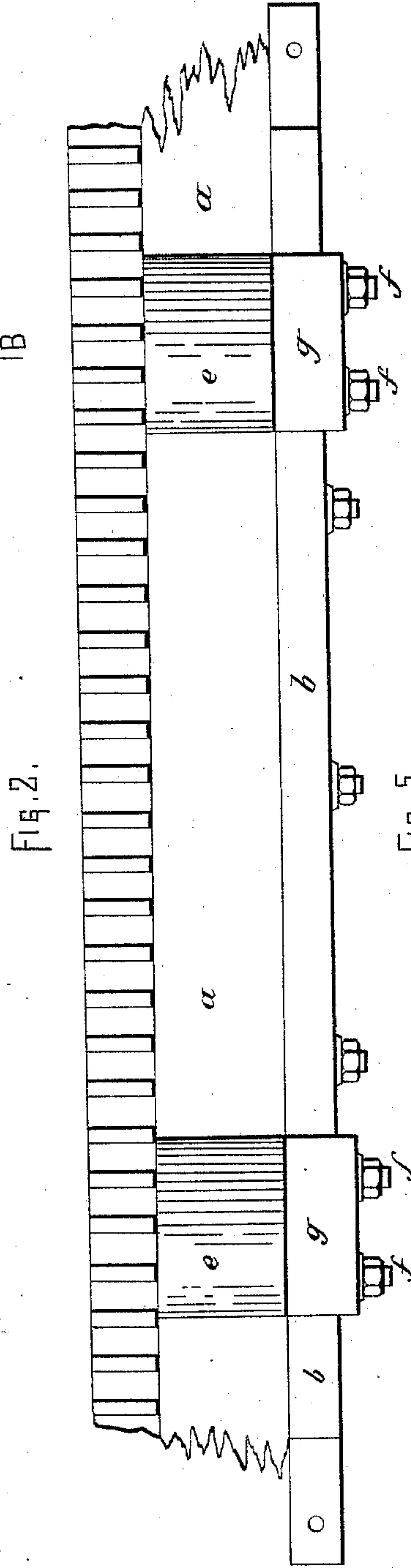
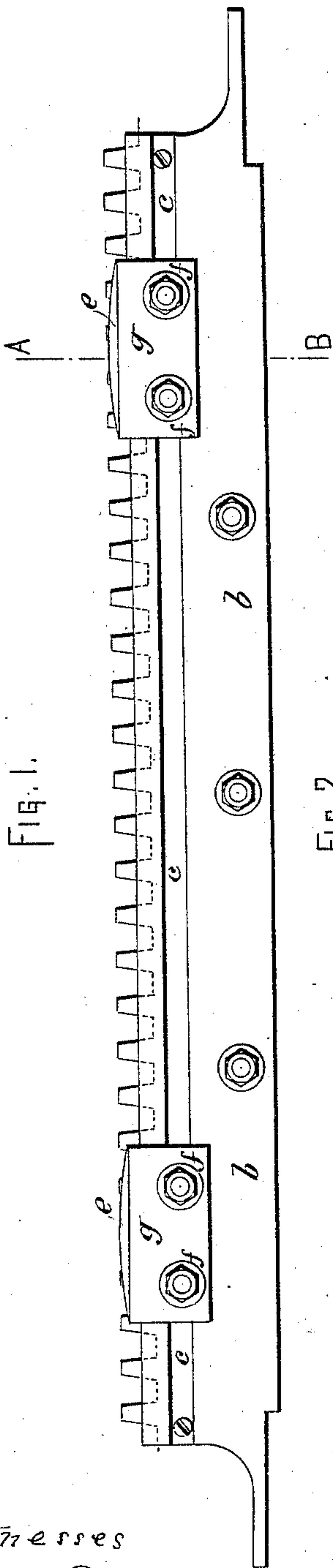
2 Sheets—Sheet 1.

J. EBERLE.

STONE PROTECTOR FOR LITHOGRAPHIC PRINTING PRESSES.

No. 448,642.

Patented Mar. 24, 1891.



Witnesses

N. C. Overt

Albert. P. Blackwood

Inventor

Josef Eberle
By Connolly Bros
Attys

(No Model.)

2 Sheets—Sheet 2.

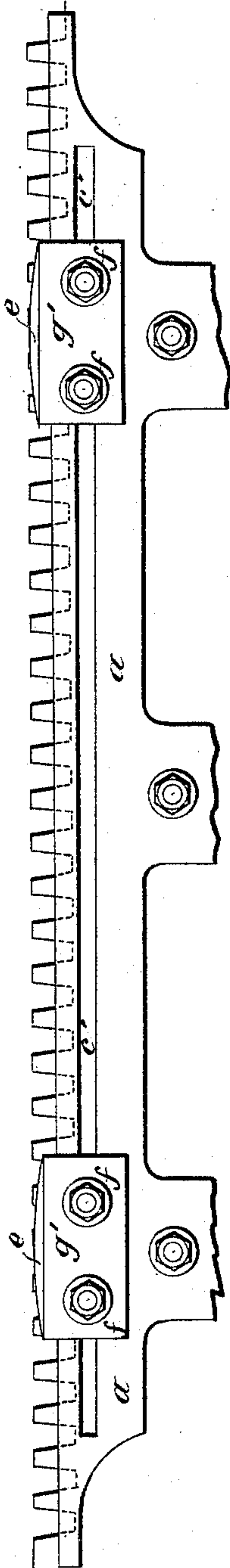
J. EBERLE.

STONE PROTECTOR FOR LITHOGRAPHIC PRINTING PRESSES.

No. 448,642.

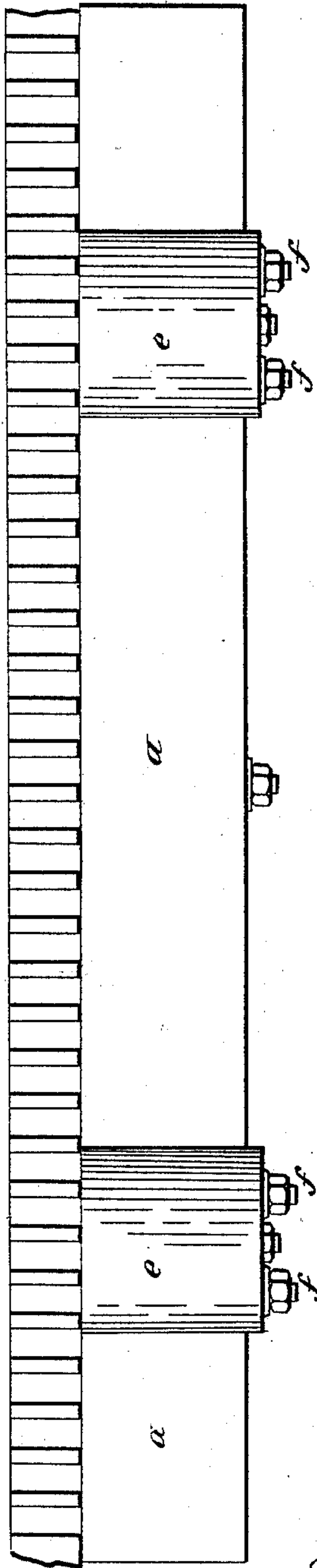
Patented Mar. 24, 1891.

FIG. 3.



Witnesses
H. C. Everett
Albert B. Blackwood

FIG. 4.



Inventor
Josef Eberle
By Connolly Bros
Attys

UNITED STATES PATENT OFFICE.

JOSEF EBERLE, OF VIENNA, AUSTRIA-HUNGARY.

STONE-PROTECTOR FOR LITHOGRAPHIC PRINTING-PRESSES.

SPECIFICATION forming part of Letters Patent No. 448,642, dated March 24, 1891.

Application filed March 7, 1889. Serial No. 302,262. (No model.)

To all whom it may concern:

Be it known that I, JOSEF EBERLE, a subject of the Emperor of Austria, and a resident of the city of Vienna, Austria-Hungary, have invented certain new and useful Improvements in Stone-Protectors for Lithographic Printing-Presses, of which the following is a specification.

This invention relates to an appliance for lithographic fast printing-machines which has for its object to prevent the edges of the stones from taking up the ink, and also to prevent the rollers from striking against these edges.

In lithographic presses as ordinarily constructed a toothed bar or rack is fixed on each side of the frame, in which the stone is secured, and cog-wheels on the shaft of the inking-roller take into these racks, so as to cause the roller to revolve as it is propelled along over the stone. When the roller reaches the edge of the stone, it comes into contact with the same and leaves a deposit of ink, which must be frequently scraped off to avoid soiling the edges of the impression-sheet.

My invention consists in the provision of adjustable buffers or edge-protectors attached to the frame of the press alongside the toothed bar or rack above the level of the running rails and in a line with the edges of the stone so that the shaft of the inking-roller will come into contact with these buffers and ride or roll over the same, thus momentarily elevating the inking-roller a short distance and preventing it from coming into contact with the edge of the stone.

My invention further consists in the novel construction, combination, and arrangement of parts, hereinafter described, and specifically claimed.

This invention is shown on the accompanying drawings, in which—

Figures 1 and 2 show a side view and plan of an edge-protector with iron bar for screwing onto the running rail, which can be applied to all present machines. Figs. 3 and 4 show a side view and plan of an edge-pro-

tector, which is fixed directly into a groove in the running rail, and which is applicable in cases where new rails have to be made, or for new machines. Fig. 5 shows a cross-section on line A B, Fig. 1.

a, Fig. 2, is the running rail. *b* is an iron bar fixed to the same, which is provided with a groove *c*, in which the cheeks *d d* can slide to and fro, and in which they can be secured by screws *f f*. The cheeks *d d* carry angle-pieces *g g*, that are covered with leather or other suitable material. Each running rail carries two such angle-pieces, which can be adjusted in position according to the width of the stone. The action of this appliance is as follows: Instead of the inking-rollers striking against the edges of the stone, and being thereby made to jump up, they pass in the present case smoothly onto and off from the edge-protectors without touching the edges of the stone. Only the wipers, which moisten the stone, touch the edges, for which purpose they have to be made of slightly larger diameter than usual.

In Figs. 3 and 4, which illustrate a modification of my invention adapted for application to new presses, the running rail *a* is itself longitudinally grooved, as shown at *c'*, and the angle-pieces *g' g'* are practically the same as those lettered *g g* in Figs. 1 and 2.

I claim—

1. In a lithographic printing-press, a stone-frame having grooved side bars with adjustable angle-pieces *g*, and cheeks *d*, substantially as described.

2. In a lithographic printing-machine, the combination, with the sides of the stone-frame having longitudinal grooves *c*, of the angle-pieces *g g*, adjustably secured to the frame, substantially as described.

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

JOSEF EBERLE.

Witnesses:

FRITZ RUFUS,
ED KLINK.