

M. ROCKSTROH.  
SAFETY DEVICE FOR PLATEN PRINTING PRESSES.  
APPLICATION FILED SEPT. 11, 1907.

908,330.

Patented Dec. 29, 1908.

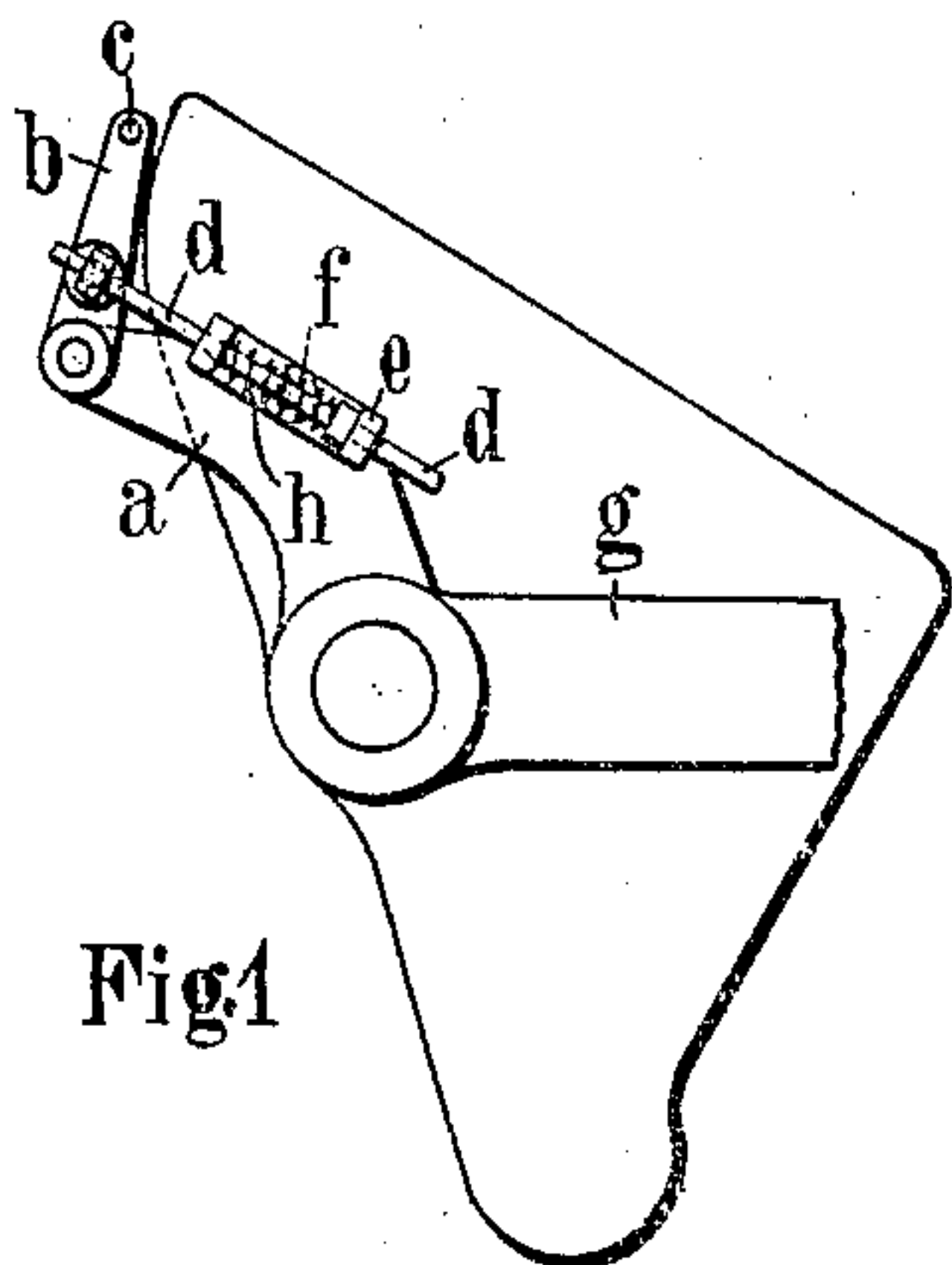


Fig. 1

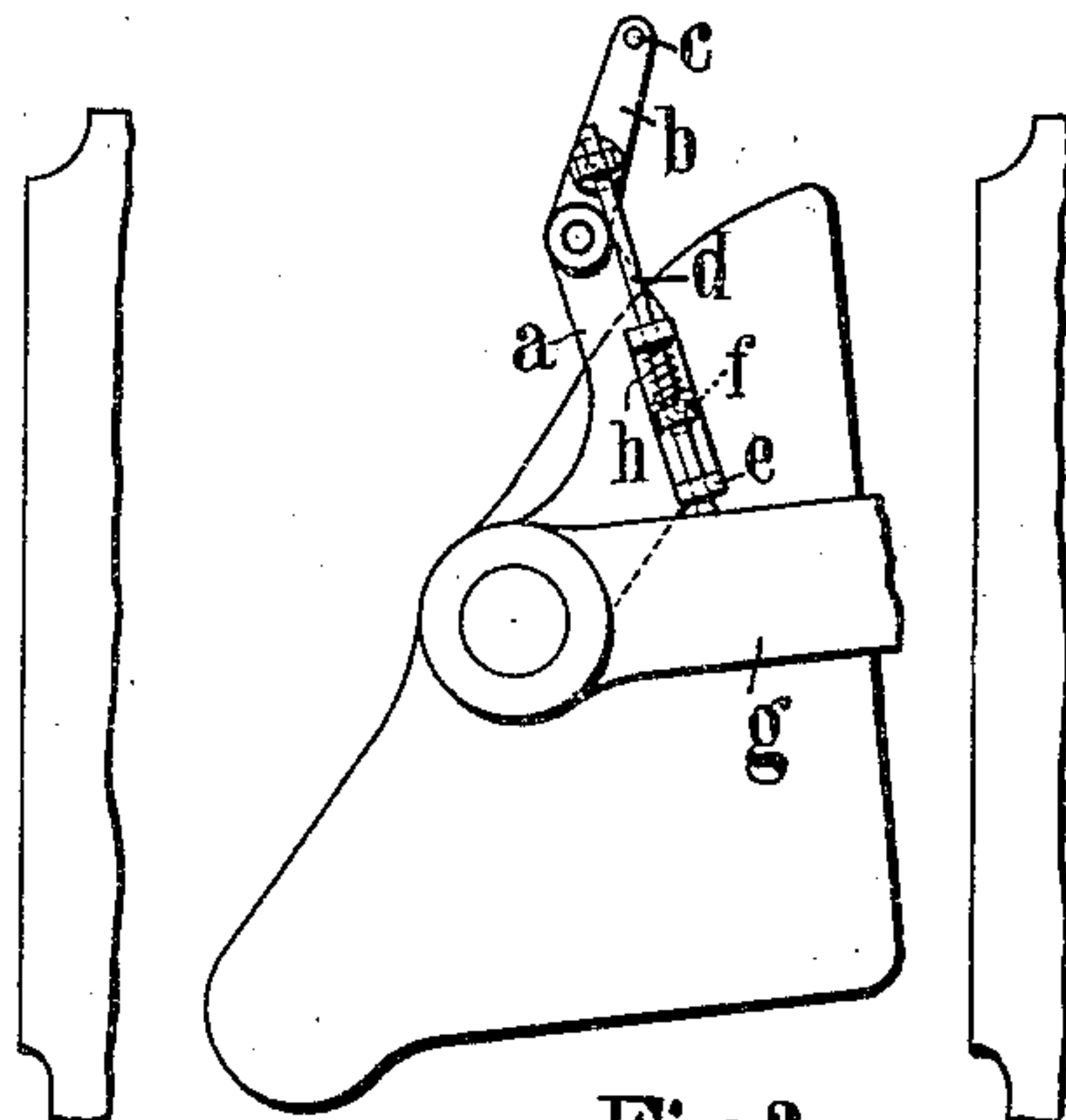


Fig. 2

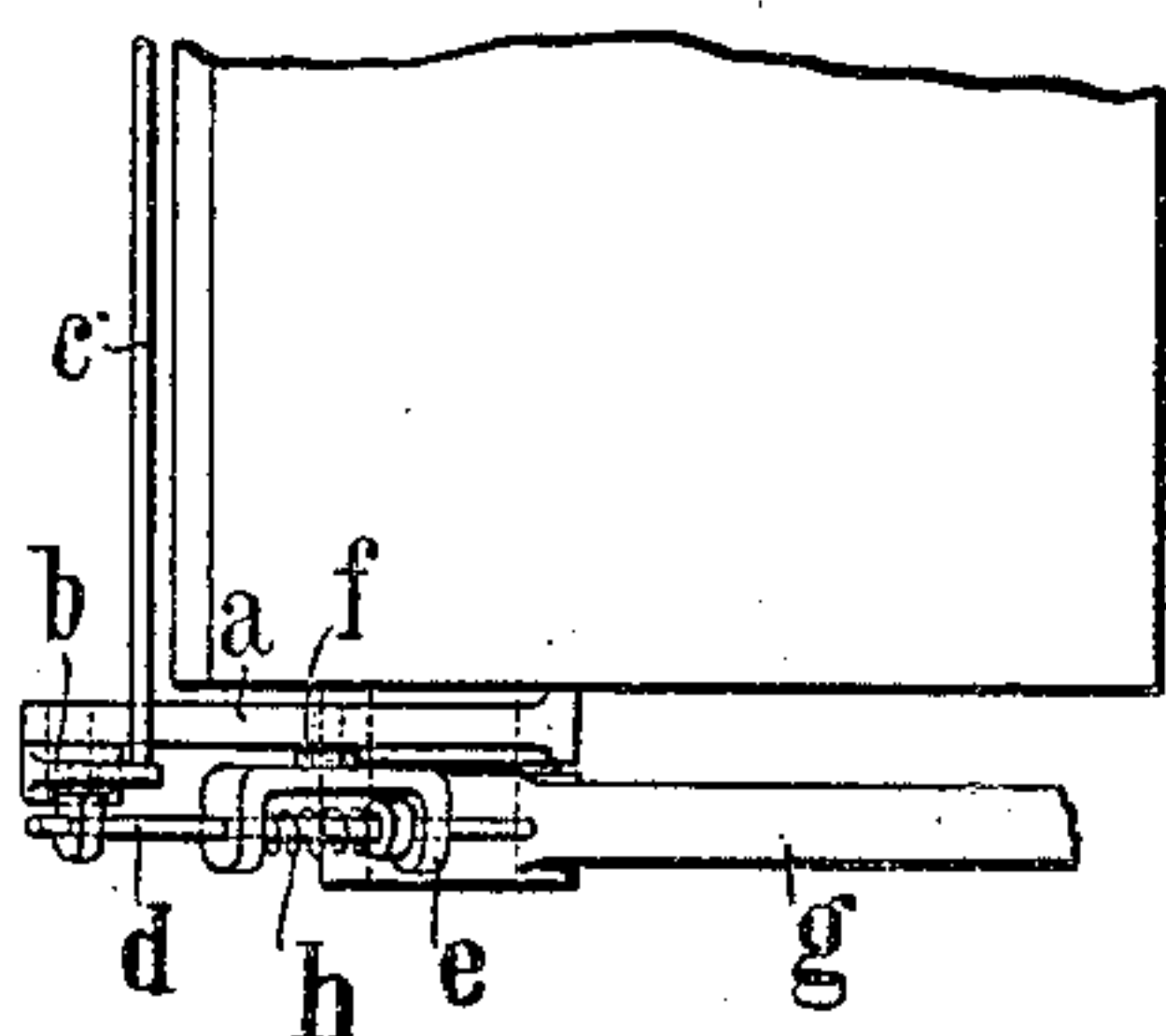


Fig. 3

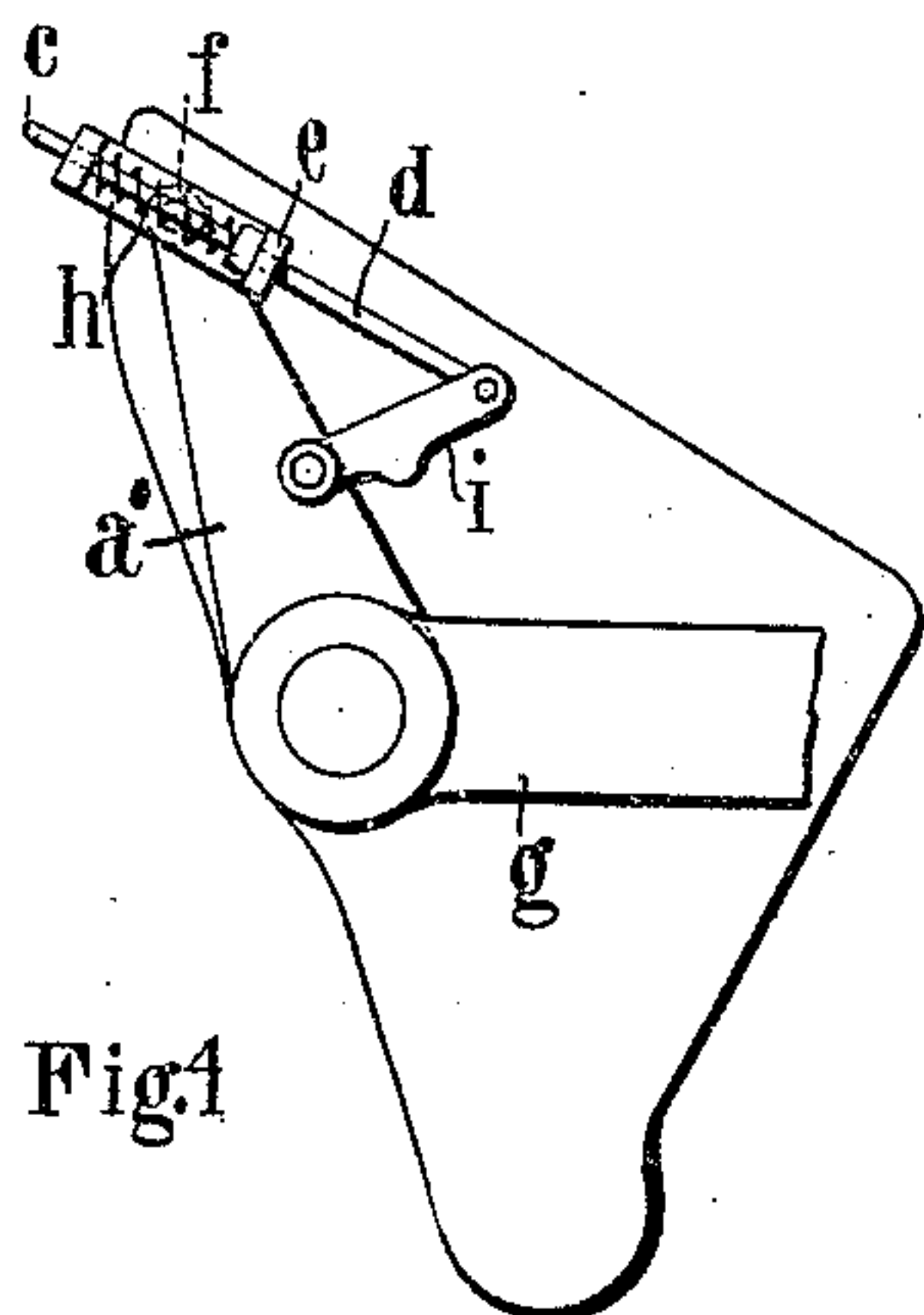


Fig. 4

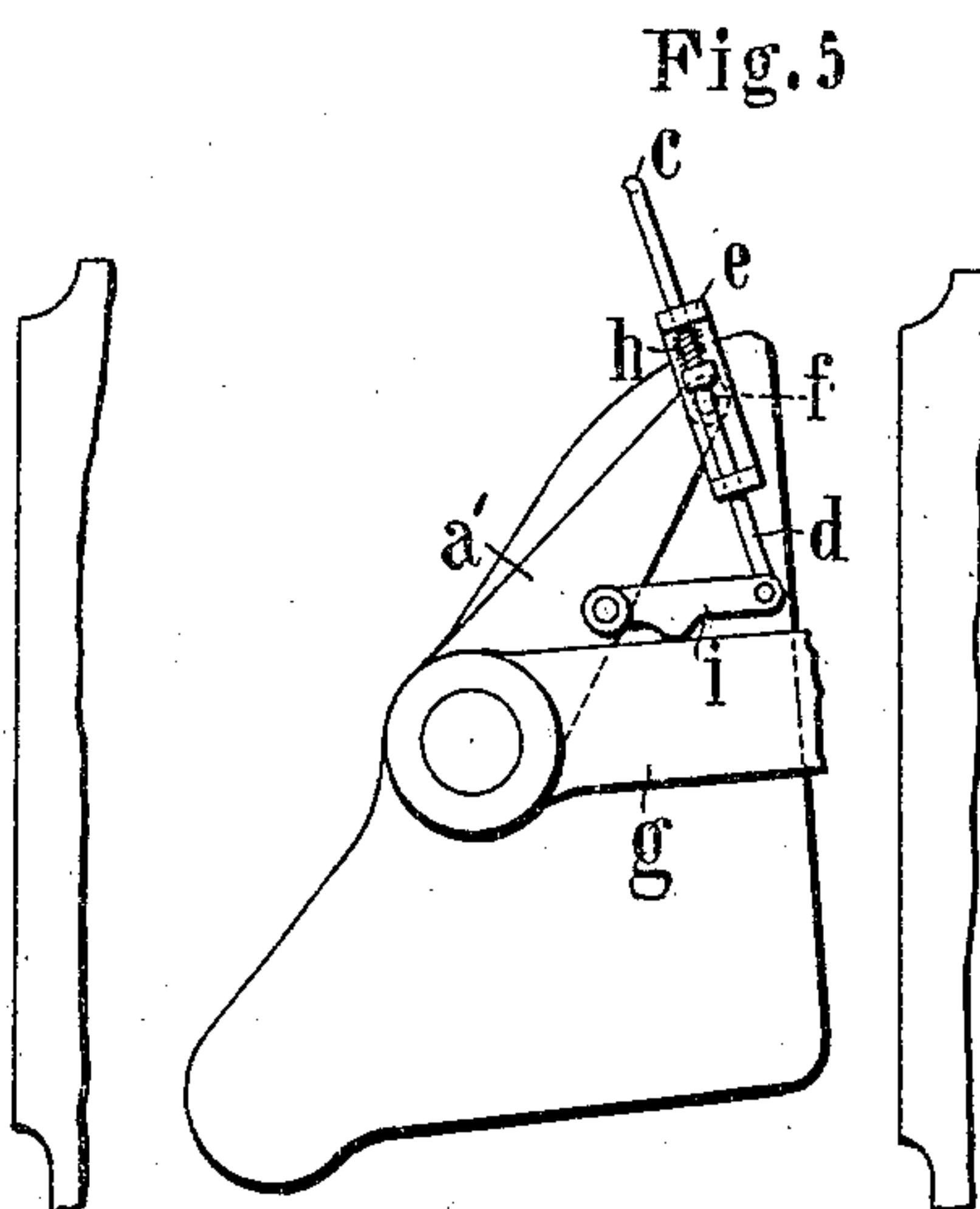


Fig. 5

Witnesses:

*J. B. Keeler*  
*E. D. Kesler*

Inventor

*Max Rockstroh*

*James L. Norris*  
Atty



# UNITED STATES PATENT OFFICE.

MAX ROCKSTROH, OF KLEIN-SEDLITZ, NEAR PIRNA, GERMANY.

## SAFETY DEVICE FOR PLATEN PRINTING-PRESSES.

No. 908,330.

Specification of Letters Patent.

Patented Dec. 29, 1908.

Application filed September 11, 1907. Serial No. 392,329.

*To all whom it may concern:*

Be it known that I, MAX ROCKSTROH, company director, citizen of the Kingdom of Saxony, and resident of Villa Lützow, Klein-Sedlitz, near Pirna-on-the-Elbe, have made certain new and useful Improvements in a Safety Device for Platen Printing-Presses, of which the following is a specification.

Safety devices for protecting the hands of the operators of platen printing presses are already known wherein on a level with the edge of the platen there is arranged a rotary flap, which while the platen is open rests against its edge, but which towards the end of the closing movement folds upwards and moves the endangered hand upwards and rearwards. Such flaps have usually been actuated by means of a lever pivoted either to the frame of the press or to the connecting rod.

Now according to this invention the entire safety device, consisting of the rotatable flap and the parts actuating it, is mounted on a separate support and is not connected, either rigidly or detachably with any portion of the press, with the result that by removing the support the entire safety device can be disconnected from the press, and can be fitted in a simple and economical manner to any platen press.

Figure 1 is a side elevation showing a preferred form of the invention, the platen being in inoperative position. Fig. 2 is a similar view, the platen being in operative position. Fig. 3 is a fragmentary elevation of the working face of the platen and showing the safety device in elevational perspective. Fig. 4 is a side elevation similar to Fig. 1, showing a slightly modified embodiment of the construction, and Fig. 5 is a similar view, similar to Fig. 2, of such modification.

In the constructional form illustrated in Figs. 1, 2 and 3, the arm *a*, which is detachably connected with the platen, carries on its free end the protecting flap *b*, *c* and has pivoted on the stud *f* thereon the guide bearing *e* for the rod *d* around which there is coiled a spring *h* that tends to draw the rod *d* downwards and by these means to press the safety flap *b*, *c* which is flexibly connected therewith against the upper edge of the platen. The lower end of the rod *d* is free; and when the platen closes this lower free end comes in contact with the connecting rod *g* with the result that the rod *d* is forced upwards and the spring *h* compressed. The arms *b* and the

horizontal safety rod *c* now turn upwards and rearwards (Fig. 2) and remove out of danger the hand resting on the edge of the platen.

The constructional form shown in Figs. 4 and 5 differs from that shown in Figs. 1, 2 and 3 inasmuch as the rocking arms *b* are dispensed with, the safety rod *c* being directly attached to the spring rods *d*. The bearing *e* for the spring *h* and the rod *d* is in this construction pivoted at *f* to the end of the support *a'*; while the lower end of the rod *d* is connected with the arm *a'* by means of a link *i*, which is provided on its lower edge with a projection that comes in contact with the upper edge of the connecting rod *g* as the platen closes. In this construction also the safety rod *c* moves upwards and backwards.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed I declare that what I claim is:—

1. In a safety device for platen printing presses, in combination, a supporting arm secured to the platen for movement therewith, a pivoted guide on the arm, a rod passed through the guide, a horizontal safety bar arranged to be moved by the rod towards or away from the platen, a member pivoted on the arm and connected pivotally to said rod, spring means for holding the rod in a normal position with the bar against the platen when the latter is in inoperative position, and means for moving the rod to store energy in said spring means and to move the bar away from the platen, upon the completion of the movement of the latter to operative position.

2. In a safety device for platen printing presses, in combination, a supporting arm secured to the platen for movement therewith, a member mounted for pivotal movement on the end of the arm, a horizontal safety bar carried by the member and movable with the member towards and away from the platen, a guide pivoted on the arm, a rod passed through the guide and pivoted to said member, spring means acting to hold the rod in a normal position with the bar against the platen when the latter is in inoperative position, and means for moving the rod against the tension of said spring means, to move the bar away from the platen, upon the completion of the movement of the latter to operative position.

3. In a safety device for platen printing presses, in combination, a supporting arm



secured to the platen for movement there-  
with, a member mounted for pivotal move-  
ment on the end of the arm, a safety bar car-  
ried by the member and movable towards and  
5 away from the platen, a rod connected to  
said member to effect pivotal movement  
thereof, a guide pivoted on the arm and  
through which said rod is passed, means for  
moving said rod in one direction in one posi-  
10 tion of the platen and means to engage said  
rod and move the same in an opposite direc-  
tion, in another position of the platen.

4. In a safety device for platen printing  
presses, in combination, a supporting arm  
15 secured to the platen for movement there-  
with, a safety bar movable towards and away  
from the platen, a guide member on the arm  
and formed with two lugs, a rod associated  
with the safety bar to effect movement there-  
20 of and passed through the guide member,  
said rod having a stop between said lugs, a  
spring surrounding said rod and bearing  
against said stop and one of said lugs, said  
spring serving to move the rod in one direc-

tion in one position of the platen, and means 25  
to effect movement of the rod in an opposite  
direction, in another position of said platen.

5. In a safety device for platen printing  
presses, in combination, a supporting arm  
secured to the platen for movement there- 30  
with, a safety bar movable towards and away  
from the platen, a pivoted guide on the arm,  
a rod passed through the guide and asso-  
ciated with the safety bar to effect move-  
ment thereof, a member pivoted on the arm 35  
and connected pivotally to said rod means  
for moving the rod in one direction in one  
position of the platen, and means to effect  
movement of the rod in an opposite direc-  
tion, in another position of the platen. 40

In testimony whereof I have hereunto set  
my hand in presence of two subscribing wit-  
nesses.

MAX ROCKSTROH.

Witnesses:

PAUL ARRAS,

ULYSSES J. BYWATER.