

No. 774,004.

PATENTED NOV. 1, 1904.

A. A. STROM.
RAILWAY SWITCH LOCK.
APPLICATION FILED NOV. 18, 1903.

NO MODEL.

Fig. 1.

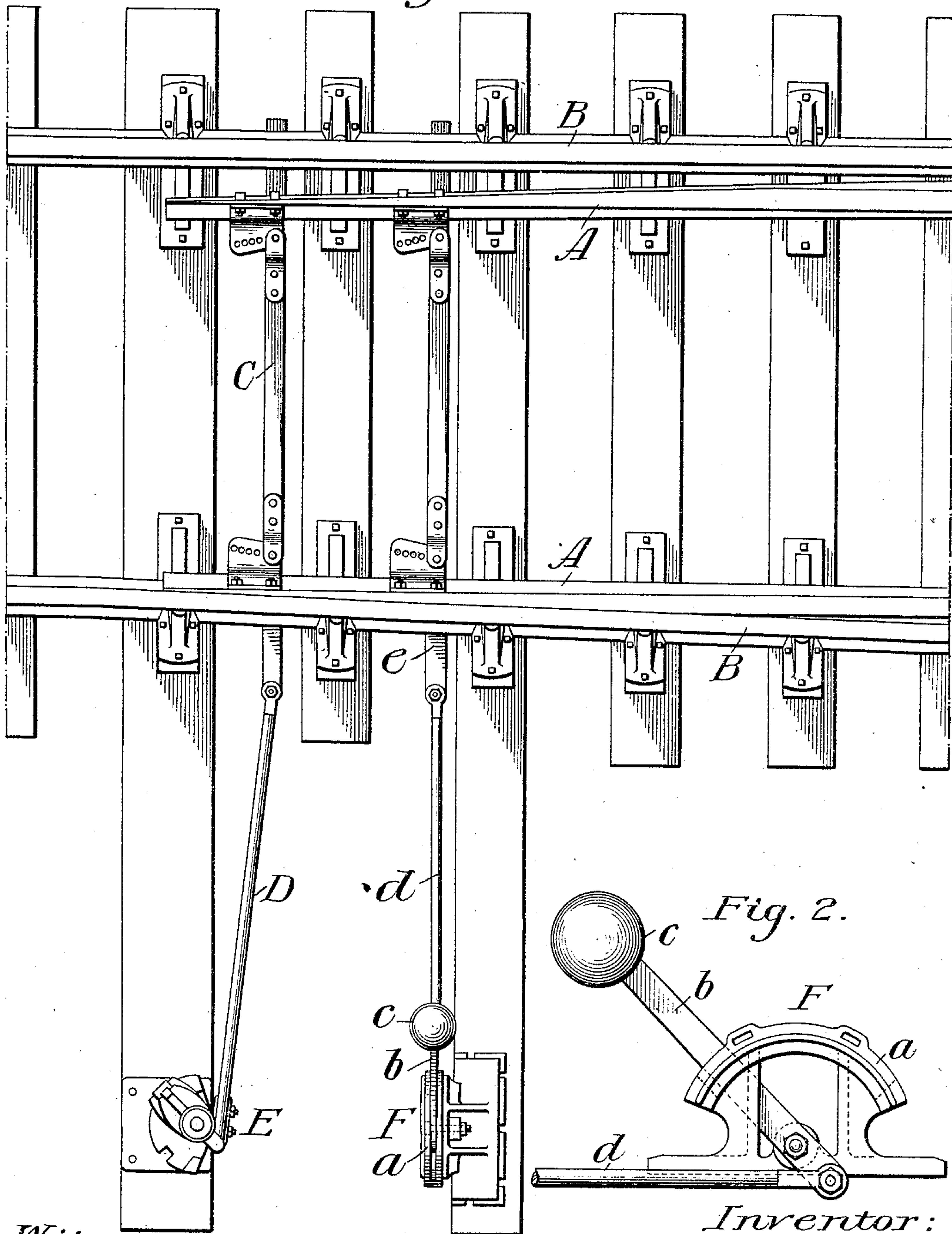
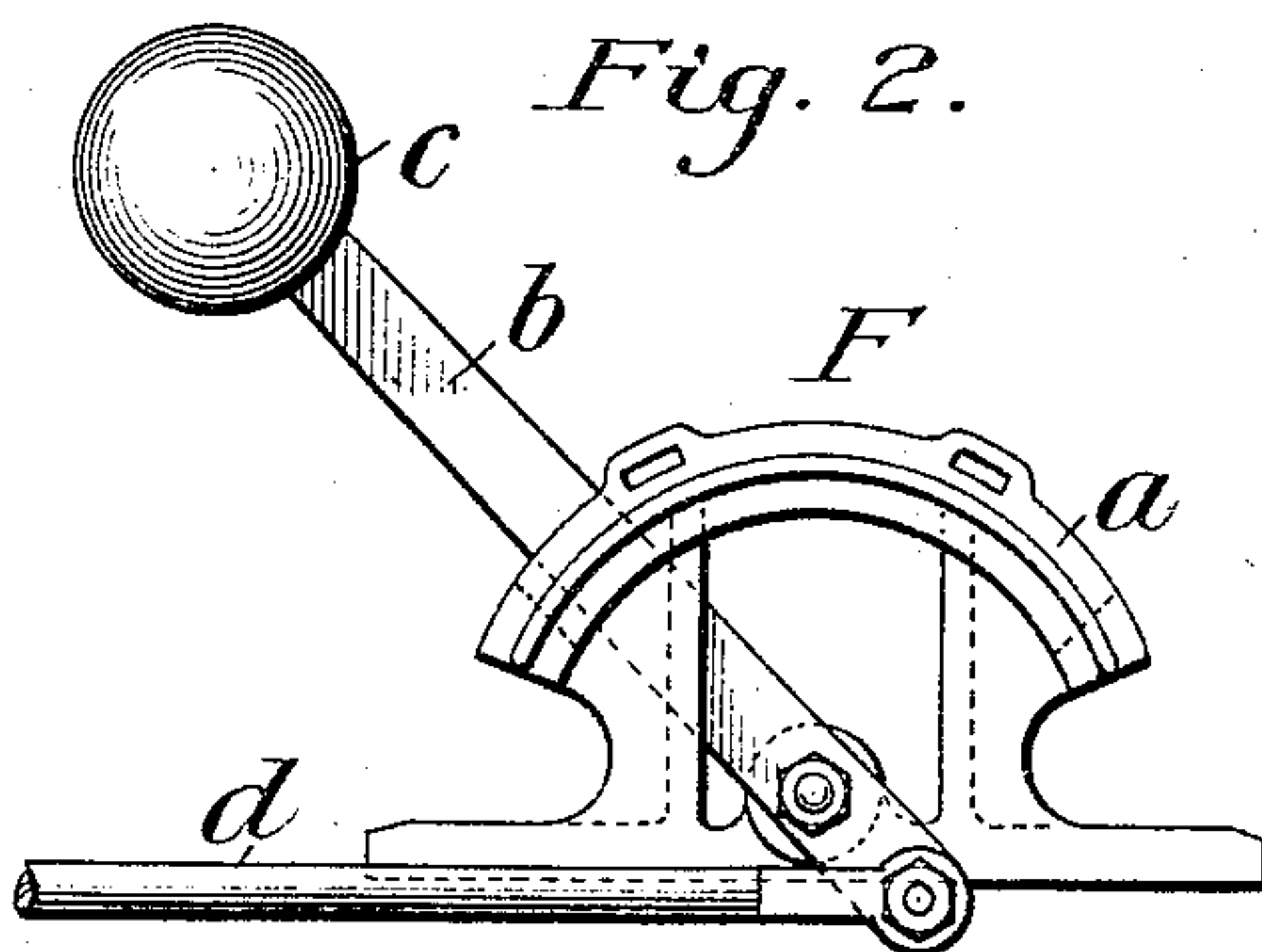


Fig. 2.



Witnesses:

Albert C. Poppins
Arthur D. Kinner

Inventor:

Asel A. Strom
By *Dyrenforth Dyrenforth* & *Co.*
his Attorneys

UNITED STATES PATENT OFFICE.

AXEL A. STROM, OF CHICAGO, ILLINOIS, ASSIGNOR TO PETTIBONE, MULLIKEN & COMPANY, A CORPORATION OF ILLINOIS.

RAILWAY-SWITCH LOCK.

SPECIFICATION forming part of Letters Patent No. 774,004, dated November 1, 1904.

Application filed November 18, 1903. Serial No. 181,600. (No model.)

To all whom it may concern: -

Be it known that I, AXEL A. STROM, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Railway-Switch Locks, of which the following is a specification.

My invention relates to an improvement in the class of devices employed in connection with a switch-stand as the primary switch-throwing medium for locking a switch in either position to which it is thrown by operating the stand. Such devices have hitherto been provided as adjuncts of the switch-stands immediately connected therewith and forming, practically, parts thereof, whereby in the event of wreckage of a stand so equipped the lock is likewise wrecked, with the effect of impairing or destroying its switch-locking function and leaving the switch-rails loose.

The object of my improvement is to avoid the result referred to of wrecking the switch-stand by connecting the locking medium with the switch more or less remotely from the operating primary stand, whereby the only connection of the lock with that stand shall be through the medium of the switch, so that the switch-stand proper may become wrecked or otherwise impaired for use without impairing the function of the lock which is actuated by the stand in throwing the switch.

Referring to the accompanying drawings, Figure 1 is a plan view of a railway-switch equipped with my improvement in a preferred form, and Fig. 2 is a view in elevation of the switch-lock in the form of a known variety of switch-stand.

My improvement is shown in the drawings to be applied to a known construction of split switch formed of connected point-rails A A between main or stock rails B B and connected from a head-rod C through the medium of a connecting-rod D with a switch-stand E of any known or suitable variety, and therefore only represented in plan.

At F is represented the switch-lock in its preferred form of a switch-stand of the variety involving a sector-like body *a*, having fulcrumed upon it a lever *b*, carrying a weight

c on one end and joined from its opposite end to a tie-bar *e* of the switch by a connecting-rod *d*. The throw of the switch by the stand E also throws the lever *b* correspondingly, owing to its connection with the switch, and the position of the weighted lever at either end of its throw, where it may be fastened, if desired, locks the switch at either position of its throw independently of the switch-stand E, owing to the separation from it of the locking device.

The switch-stand form of the lock is only one of various forms in which it may be provided, and the situation of the lock and the switch-operating device relative to each other may, without departure from my invention, be varied from that presented to any desired relative situation, and the switch-operating device may be other than a switch-stand and be located in any suitable situation, since my invention consists in its broadest sense in combining with any suitable switch-operating device operatively connected with the switch a supplemental lock also connected with the switch, but independently of its said operating device, and actuated by the switch in throwing it by operating said device to lock the switch in the position to which it has been thrown.

What I claim as new, and desire to secure by Letters Patent, is—

1. In combination with a railway-switch, a switch-operating device operatively connected therewith, and a supplemental lock connected with the switch and with said device solely through the switch to be actuated by the throw of the switch to lock it in the position to which it is thrown and permit its release therefrom.

2. In combination with a railway-switch, a switch-stand operatively connected therewith, and a supplemental lock removed from said stand and connected independently thereof with the switch and with said stand solely through the switch to be actuated by the throw of the switch to lock it in the position to which it is thrown and permit its release therefrom.

3. In combination with a railway-switch, a

switch-operating device operatively connect-
ed therewith, and a supplemental lock com-
prising a switch-stand having a sector-like
body with a weighted lever fulcrumed upon
5 it and connected with the switch independ-
ently of said device and devoid of connection
with said device other than through the me-
dium of the switch to be actuated by the
throw of the switch to lock it in the position
10 to which it is thrown.

4. In combination with a railway-switch, a
switch-stand operatively connected therewith,

and a supplemental lock comprising a switch-
stand having a sector-like body with a weight-
ed lever fulcrumed upon it and connected 15
with the switch independently of said first-
named switch-stand, from which it is sepa-
rate, to be actuated by the throw of the switch
to lock it in the position to which it is thrown.

AXEL A. STROM.

In presence of—

WALTER N. WINBERG,
F. M. WIRTZ.