

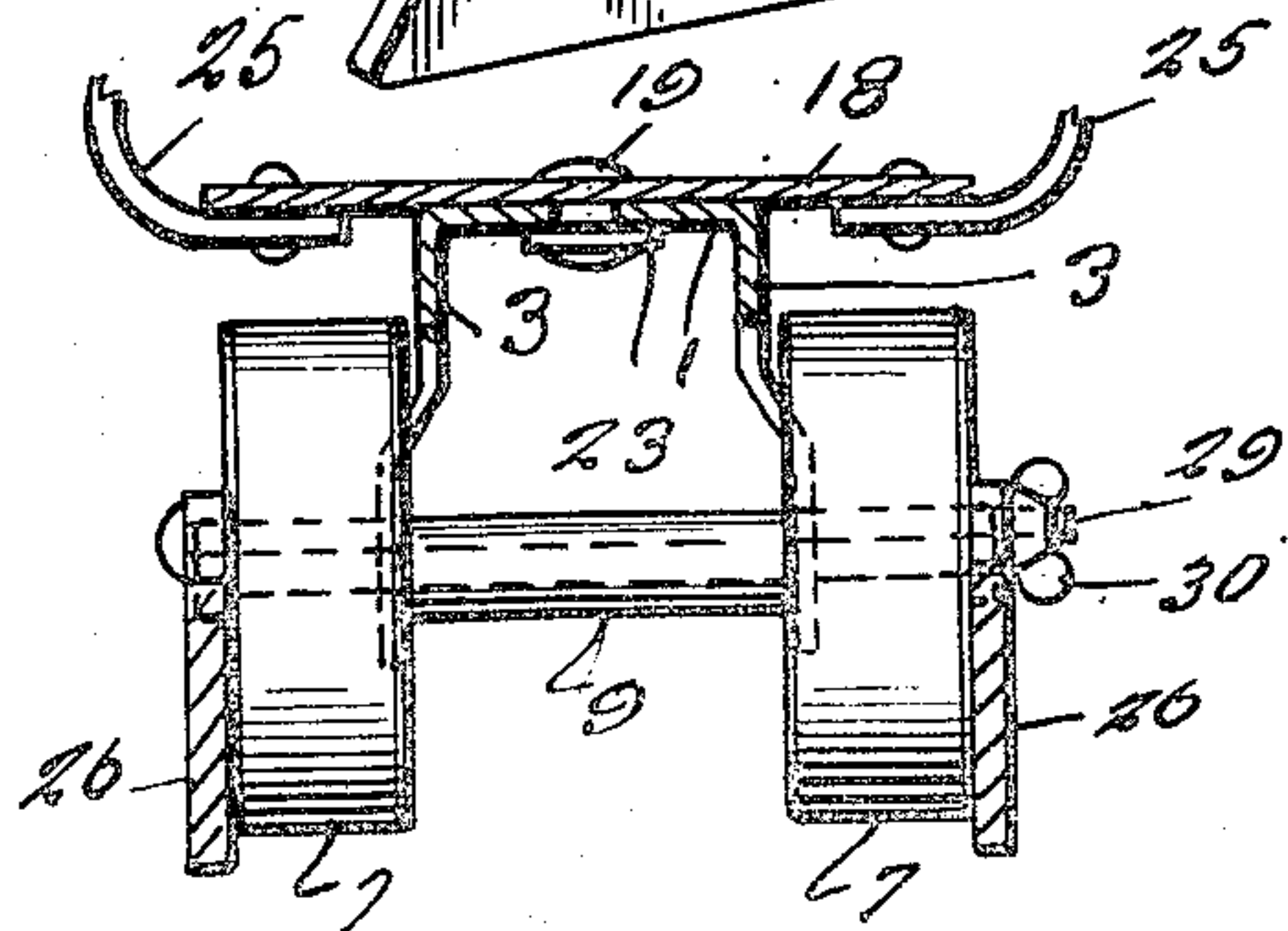
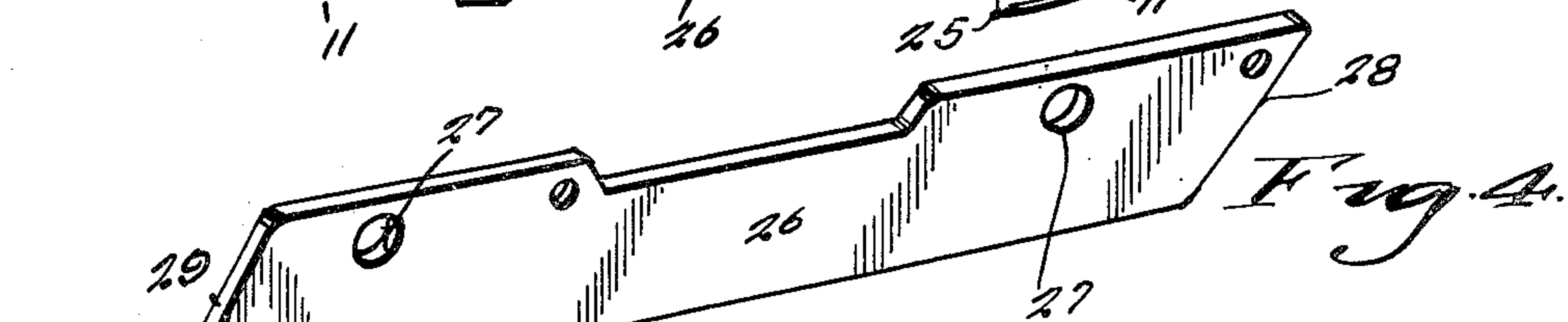
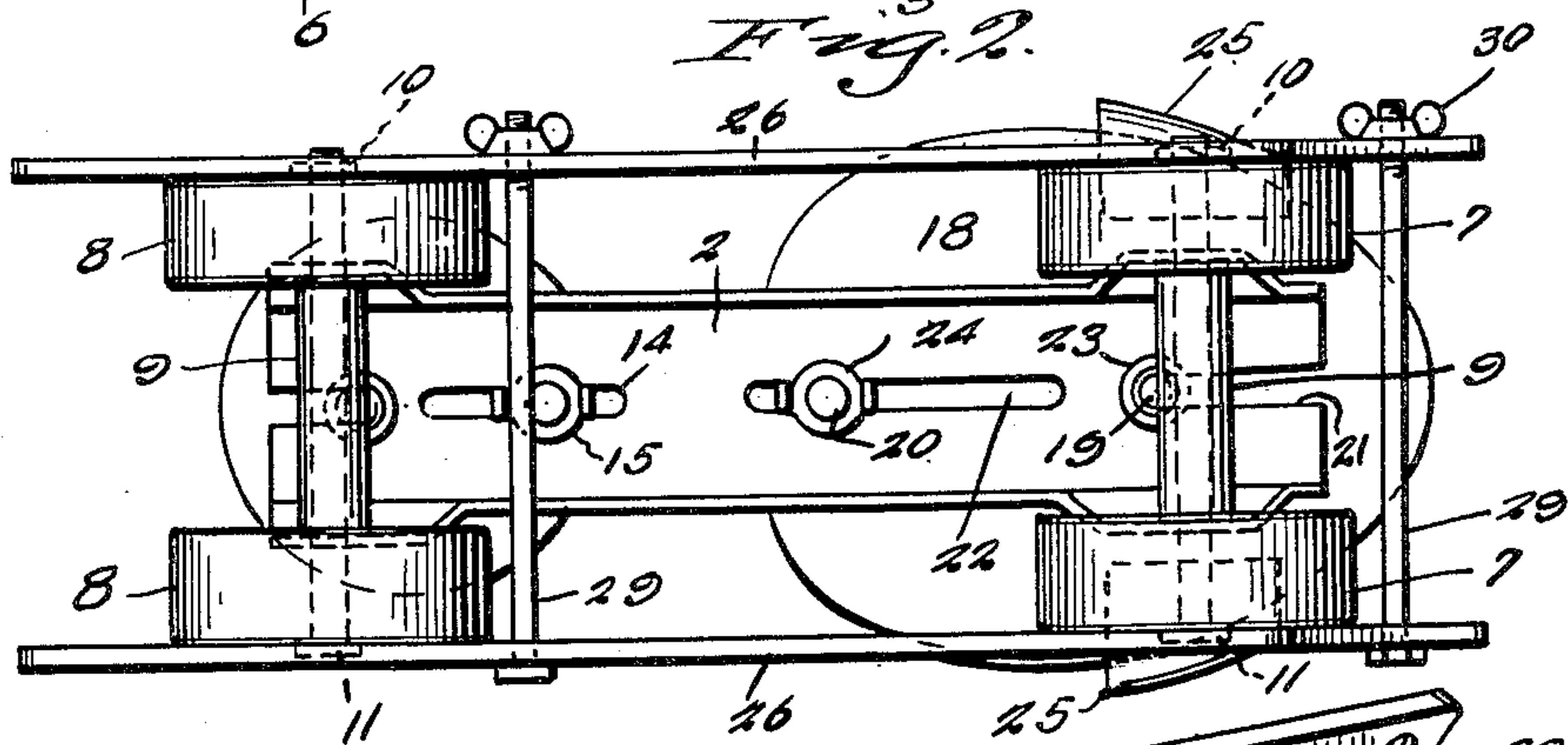
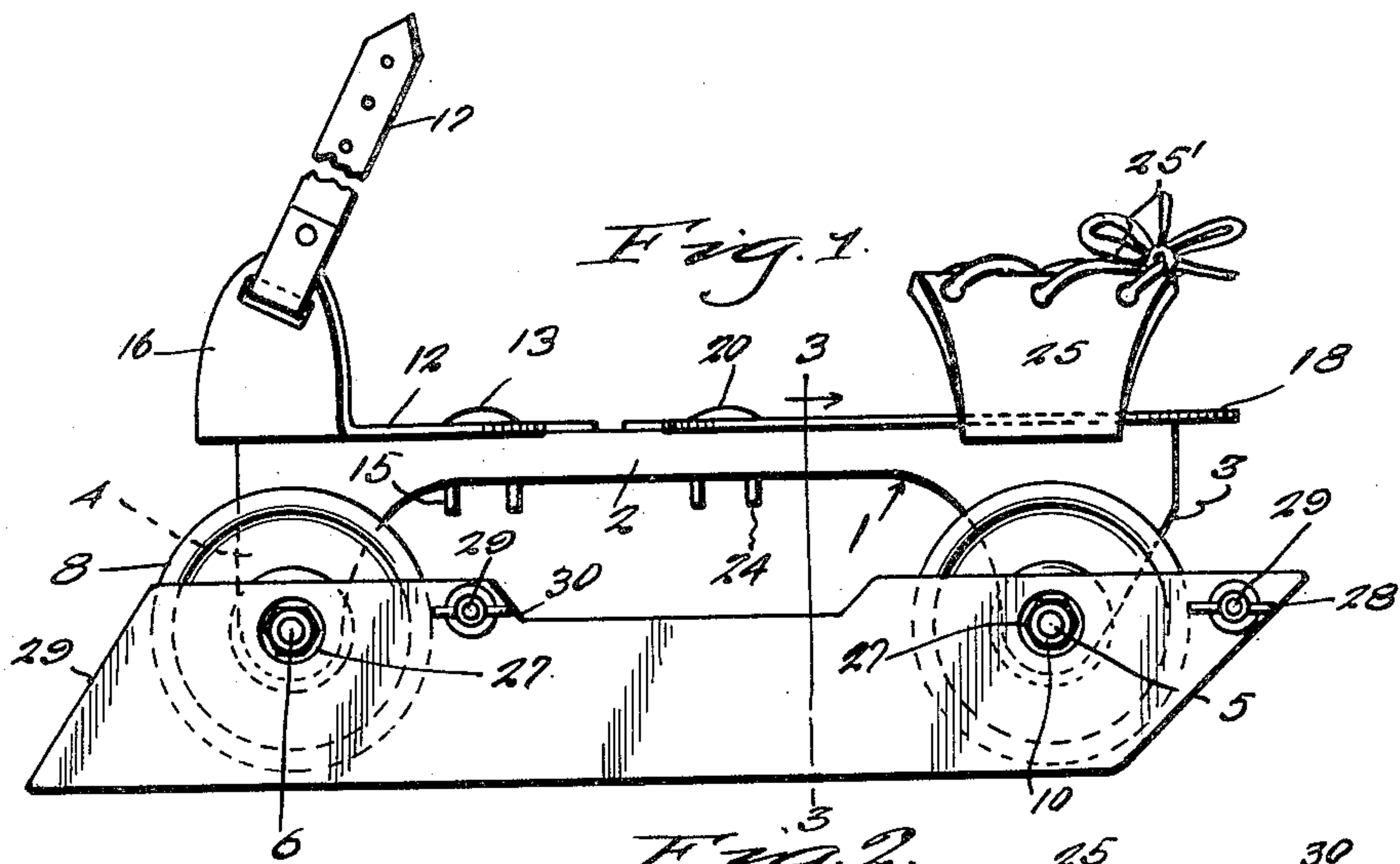
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H. W. ENGLISH

2,148,687

CONVERTIBLE SKATE

Filed May 28, 1938



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## UNITED STATES PATENT OFFICE

2,148,687

## CONVERTIBLE SKATE

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Application May 28, 1938, Serial No. 210,739

2 Claims. (Cl. 280—7.13)

My invention relates to improvements in convertible skates for use either as roller, or ice skates as desired.

The invention is designed with the particular purpose in view of equipping a roller skate inexpensively and quickly for use as an ice skate of the type having double runners whereby beginners and those with weak ankles may skate with ease and suffer no untoward after effects.

Other and subordinate objects are also comprehended by my invention all of which together with the precise nature of my improvements will be readily understood when the succeeding description and claims are read with reference to the drawing accompanying and forming part of this specification.

In said drawing:

Figure 1 is a view in side elevation of a skate embodying my improvements,

Figure 2 is a view in bottom plan,

Figure 3 is a view in vertical transverse section taken on the line 3—3 of Figure 1 looking in the direction indicated by the arrows, and

Figure 4 is a view in perspective of one of the runners.

Referring to the drawing by numerals, the skate which is rendered convertible by my invention comprises a carriage or truck 1 having straight flat shank 2, a pair of laterally spaced ears 3 depending from the shank 2 at the toe end of the skate, and a similar pair of ears 4 depending from said shank at the heel end of said skate, said pairs of ears 3 and 4 having extended therethrough the front and rear roller spindles 5 and 6 on the ends of which are mounted the pairs of front and rear rollers 7 and 8. Intermediate each pair of ears 3 and 4 is a spacing sleeve 9 surrounding the spindles. The spindles 5, 6 have the form of headed bolts passing through the related rollers and ears from one side of the skate and having nuts 10 threaded thereon. The heads 11 of the spindles 5 and 6 and the nuts 10 extend beyond the outer edges of the rollers 7 and 8. The carriage or truck 1 supports a heel plate 12 rendered adjustable on said carriage or truck by means of a bolt 13 passing therethrough and through a slot 14 in the shank 2, said bolt having a wing nut 15 threaded on the lower end thereof. The heel plate 12 has the heel flange 16 arising therefrom to which is attached, in the usual manner, the ankle strap 17. On the front of the carriage or truck 1 is a foot or toe plate 18 adjustable thereon through the medium of front and rear bolts 19 and 20 passing through front and rear slots

21 and 22 in the shank 2, the bolt 19 having a washer 23 riveted on the lower end thereof and comprising a guide stud, and the bolt 20 having a wing nut 24 threaded on the lower end thereof for clamping the plate 18 in position. The plate 18 has suitably affixed to opposite sides thereof a pair of toe straps 25 adapted to be laced together by the lacing 25'.

The described roller skate is converted into an ice skate by means of a pair of plate-like side runners 26 having adjacent their upper edges front and rear circular apertures 27 adapted to fit over the heads 11 and nuts 10 of the front and rear spindles 5 and 6, and a pair of front and rear bolts 28 and 29 extended through said runners in front of the front and rear rollers 7 and 8, respectively, and having wing nuts 30 thereon, said bolts 28, 29 and wing nuts 30 clamping the runners 26 against the outer edges of the rollers 7 and 8, and the heads 11 and nuts 10 coacting with the edges of the apertures 27 to support the rollers 7 and 8 above the lower edges of the runners 26. Preferably the runners 26 are provided with upwardly and forwardly inclined front ends 28 and similarly shaped rear ends 29.

As will now be clear my invention provides a pair of side runners for supporting a roller skate by means of the front and rear roller spindles, the runners being clamped against the sides of the front and rear rollers thereby preventing said rollers from turning, said rollers acting as spacers maintaining said runners in parallelism and bracing the same under side thrust and against stresses and strains incident to turning. As will also be readily apparent the skate may be converted from an ice skate into a roller skate quickly and easily by merely unscrewing the wing nuts 30 and removing the runners from off the heads 11 and nuts 10.

The foregoing constitutes a detailed description of a preferred embodiment of my invention and will, it is believed, suffice to impart a clear understanding thereof. However, it is to be understood that the present disclosure is illustrative rather than restrictive and that right is herein reserved to modifications in the invention as described falling within the scope of the subjoined claims.

What I claim is:

1. In a convertible skate, a carriage having front and rear roller spindles thereon, and front and rear pairs of rollers on the ends of said spindles, respectively, the spindles having heads on one end and nuts on the other end, the heads

and nuts extending beyond the outer edges of said rollers, a pair of side runners having apertures therein fitting over said heads and nuts and supporting the carriage and rollers thereby in elevated position, and detachable devices on said runners clamping the same against the outer edges of said rollers.

2. In a convertible skate, a carriage having front and rear roller spindles thereon, and front and rear pairs of rollers on the ends of said spindles, respectively, the spindles having heads on one end and nuts on the other end, the heads

and nuts extending beyond the outer edges of said rollers, a pair of side runners having apertures therein fitting over said heads and nuts and supporting the carriage and rollers thereby in elevated position, and detachable devices on said runners clamping the same against the outer edges of said rollers comprising a pair of bolts extending through said runners in front of said pairs of rollers, respectively, and wing nuts threaded onto said bolts.

HENRY W. ENGLISH.