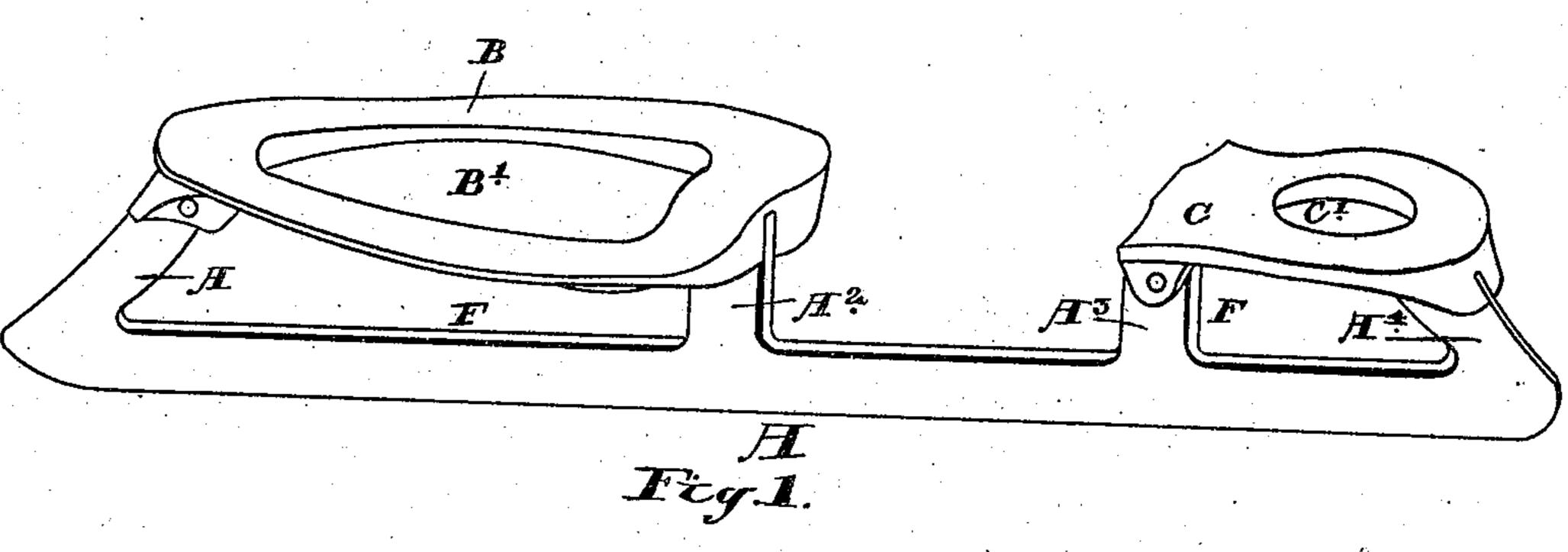
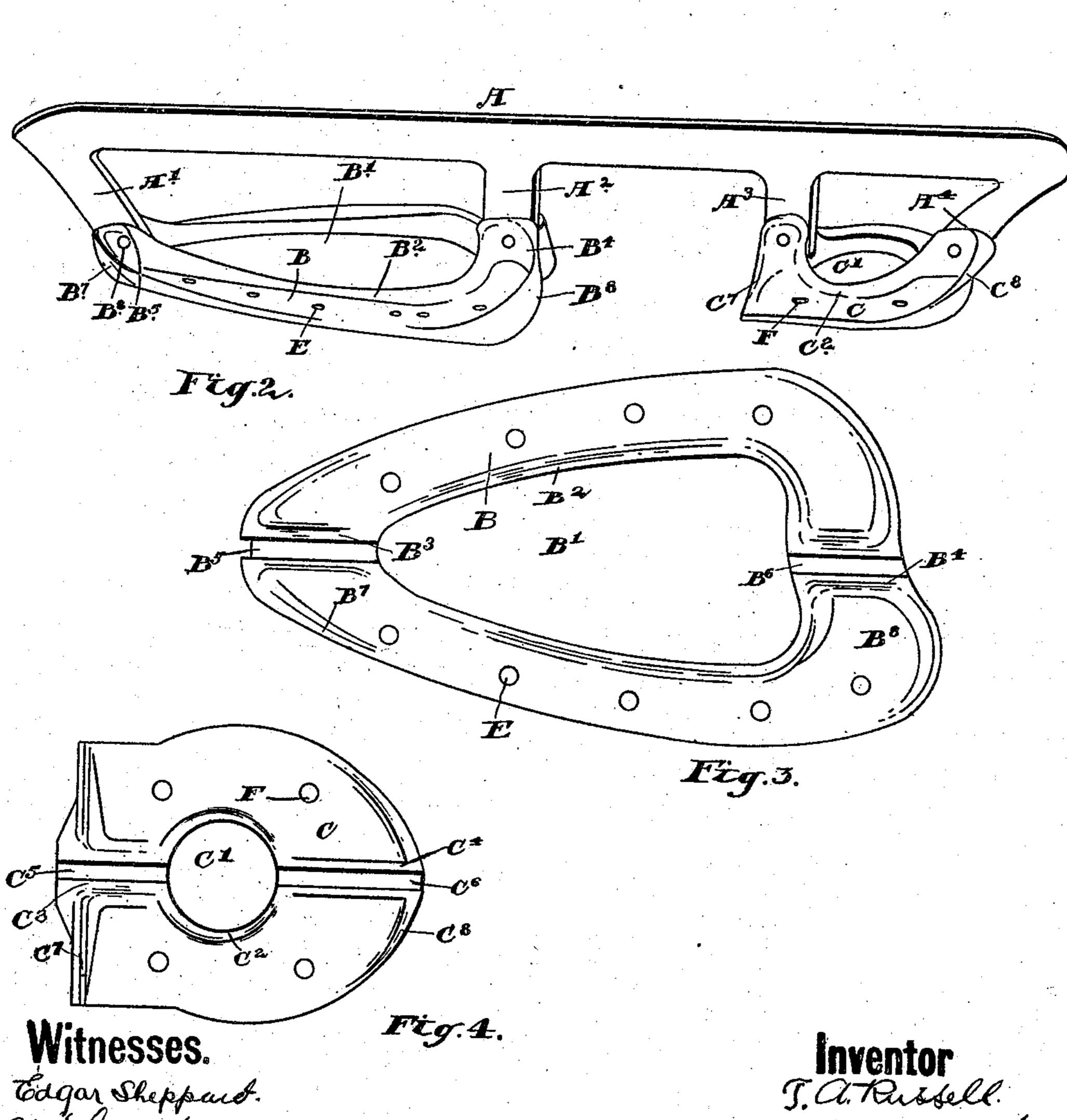
T. A. RUSSELL. SKATE.

APPLICATION FILED APR. 27, 1905.





UNITED STATES PATENT OFFICE.

THOMAS ALEXANDER RUSSELL, OF TORONTO, CANADA, ASSIGNOR TO CANADA CYCLE AND MOTOR COMPANY, LIMITED, OF TORONTO, CANADA, A CORPORATION OF CANADA.

SKATE.

No. 815,121.

Specification of Letters Patent.

Patented March 13, 1906.

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To all whom it may concern:

Be it known that I, THOMAS ALEXANDER Russell, manufacturer, residing at the city of Toronto, in the county of York, in the 5 Province of Ontario, Canada, have invented certain new and useful Improvements in Skates, of which the following is a specifica-

tion.

My invention relates to improvements in ro skates; and the object of the invention is to devise a skate to be attached to a boot or shoe which will be light, strong, and durable and which will require a minimum amount of cleaning after use; and it consists, essen-15 tially, of a blade provided with projecting standards forming part of the same and sole and heel plates formed of aluminium alloy having a smooth upper surface and webbed or ribbed underneath in such a manner as to 20 give lateral and longitudinal strength to the plates, such webbing being recessed centrally to receive the standards forming part of the blade which are pinned in position in the recesses, the parts being otherwise arranged 25 and constructed in detail as hereinafter more particularly explained.

Figure 1 is a perspective view of my improved skate complete. Fig. 2 is a view showing the skate in the reverse position. 30 Fig. 3 is a plan view of the sole-plate. Fig. 4

is a plan view of the heel-plate.

In the drawings like characters of reference indicate corresponding parts in each fig-

ure.

A is the blade of the skate, which is provided with a toe-standard A' and the intermediate sole-standard A2, the front heelstandard A³, and the back heel-standard A⁴. The toe-standard and back heel-standard are 40 both preferably inclined inwardly, and the intermediate standards are preferably ar-

ranged vertical.

B is the sole-plate, which is preferably made of aluminium alloy for lightness and 45 strength. The plate B is provided with a central opening B', having a bounding rib or web B4, terminating at each end substantially midway of the lateral width of the opening in webs B³ and B⁴, which are provided with re-50 cesses B5 and B6 to receive the standards A' and A^2 .

It will be noticed that the opening B' is

substantially triangular, and necessarily the webs extend not only longitudinally but also laterally, so as to form a longitudinal and lat- 55

eral bracing to the body of the plate.

A supplemental rib B7 merges in the central rib B3 on each side and dies away in the plate, forming a laterally-extending brace in the plate on each side of the standard A'. I 60 also provide a supplemental rib B8, which merges in the rib B4 and dies away in the plate, forming a substantially laterally-extending brace on each side of the standard A2. The ends of the ribs B² also extend laterally and 65 merge in the ribs B³ and B⁴, as hereinbefore described, and form necessarily laterally-extending braces in the plate.

C is the heel-plate, which is formed with a central opening C'. Around the central 70 opening C', which is substantially circular in form, is formed the ribs C2, which terminate or merge in the center in the central ribs C³ and C4, in which are formed the central recesses C⁵ and C⁶ to receive the standards A³ 75 and A4, respectively. The rib C2 forms a longtiudinal brace for the plate and also a lateral brace on each side of the central ribs C³ and C4. C7 and C8 are bracing-ribs which merge in the central ribs C3 and C4 and die 80 away in the plate C, a rib C7 being located on each side of the standard A³ and a rib C⁵ on

each side of the standard A4, as indicated. The plate B is secured to the blade by means of the pin 2, which extends through 85 the rib B³ and standard A', and the pin 3, which extends through the rib B4 and standard A2, and the heel-plate C is secured to the blade by means of the pin 4, which extends through the ribs C³ and standard A³, and the 9° pin 5, which extends through the ribs C4 and the standard A4. The pins in all cases, however, are suitably riveted.

Suitable holes E are provided in the footplate and holes F in the heel-plate in order to 95

fasten the skate onto the boot.

A skate constructed as I describe of aluminium alloy, with the ribbed or webbed under portion, is light, strong, and durable, being braced laterally as well as longitudinally. 100 The plates being of aluminium alloy, it is only necessary to clean the blade, which may be made of nickel-steel, and consequently but a minimum amount of labor is necessary in

cleaning, as aluminium is not liable to corrode or rust. There is also no danger of blood-poisoning in handling the plates.

What I claim as my invention is—

5 1. In a skate, the combination with the blade, of a foot-supporting plate provided with reinforcing-ribs on each side of the blade so disposed as to form bracing-supports from the outside edges of the plate to the blade 10 and means for centrally fastening the plate

to the blade as specified.

2. The combination with the blade having the front and intermediate standards or uprights, of a foot-plate smooth at the top and 15 having a central opening provided with a reinforcing-rib extending longitudinally and laterally on each side of the opening, a central rib in which the aforesaid rib merges provided with recesses into which the standards 20 fit, and supplemental ribs located on each side of the same merging into the central rib and dying away in the plate as and for the purpose specified.

3. The combination with the blade, and the 25 back and intermediate standards or uprights, of a heel-plate smooth at the top and having a central opening and provided with a reinforcing-rib extending around the opening on each side, central ribs in which the aforesaid 30 rib merges provided with recesses into which

the standards fit and supplemental ribs located on each side of the same merging into the central ribs and dying away in the plate as and for the purpose specified.

4. The combination with the blade and standards, of a foot-plate having central ribs

provided with recesses in which the standards are secured and ribs extending laterally on each side of the central ribs and merging into the aforesaid ribs and forming a bracing- 40 reinforcement for the plate as and for the purpose specified.

5. The combination with the blade and standards, of a foot-plate having central ribs provided with recesses in which the stand- 45 ards are secured and ribs extending laterally and longitudinally on each side of the central rib and merging into the aforesaid ribs and forming a bracing-reinforcement for the plate

as and for the purpose specified.

6. In a skate, a foot-supporting plate having central bottom ribs provided with recesses in which the standards of the blade are secured, reinforcing-ribs merging into the aforesaid ribs and extending out from both 55 sides thereof as and for the purpose specified.

7. In a skate, a foot-supporting plate having central bottom ribs provided with recesses in which the standards of the blade are rigidly secured as and for the purpose speci- 60

fied.

8. In a skate, a foot-supporting plate having central bottom ribs provided with recesses in which the standards of the blade are rigidly secured and the internal and front and 65 back reinforcing-ribs for the central rib and outside edge as and for the purpose specified.

THOMAS ALEXANDER RUSSELL.

Witnesses:

B. Boyd, EDGAR SHEPPARD.