

WALTER THORNHILL & CO.

THORNHILL'S

SUPERIOR LONDON-MADE TABLE CUTLERY.

HIGHLY-FINISHED LONDON-MADE INSTRUMENT  
KNIVES FOR HUNTING, SHOOTING, FISHING, &c.

IMPROVED LUNCHEON CASES AND BASKETS.

GUARANTEED  
RAZORS, SCISSORS, POCKET KNIVES, &c.

*Illustrated Price Lists Post Free.*

*Cutlers by special appointment to H.M. the Queen,  
Their R.H. the Prince and Princess of Wales,  
and the Royal Family.*

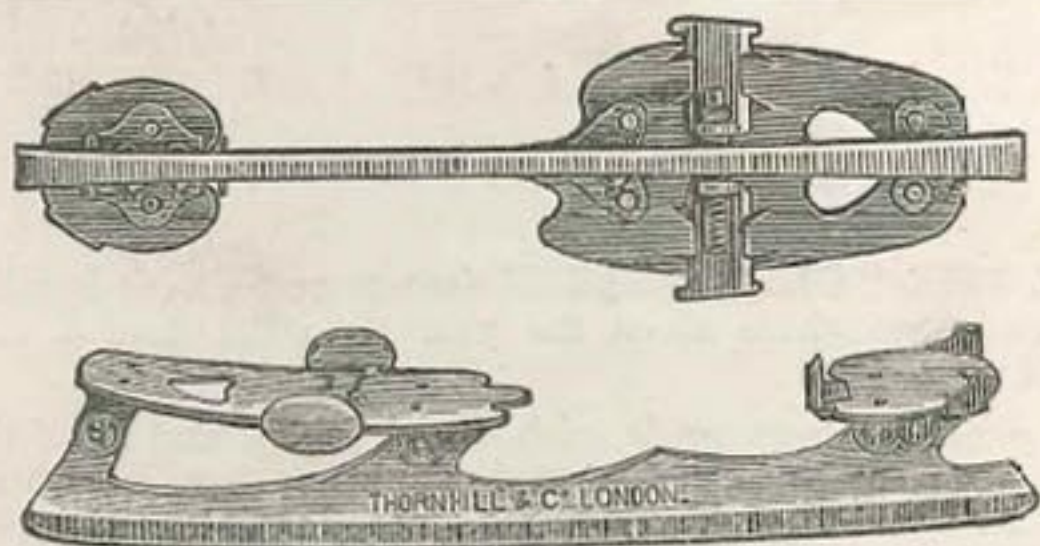
144, NEW BOND STREET, LONDON.

ESTABLISHED 1734.



246  
The  
Prince & Princess  
of Wales,  
and  
the Royal Family.

THORNHILL'S  
IMPROVED  
LONDON-MADE SKATES.



MANUFACTURERS OF THE  
DOWLER PATENT BLADE,  
AND  
THORNHILL'S IMPROVED METHOD OF CHANGING THE BLADES;  
As recommended by  
CAPTAIN DOWLER AND T. MAXWELL WITHAM, ESQ.,  
FOR FIGURE SKATING.

WALTER THORNHILL & Co.,  
Cutlers to the Queen,  
144, NEW BOND STREET, LONDON.  
ESTABLISHED 152 YEARS.

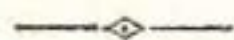
TELEGRAMS—"THORNHILL, LONDON."

TELEPHONE No. 3501.

VERZAMELING

Mr. J. Van Buttingha Wichers.

## SKATING.

NEW FORM OF BLADE FOR FIGURE  
SKATING.

SINCE THE "CLUB SKATE" (see page 8), as it is called, was created, somewhere about the year 1830, the form of the blade has varied very little.

It has generally been made with straight sides, that is, of the same thickness from toe to heel, although some few have been made with convex sides; but these have been discarded as altogether wrong in principle. The variation in the curvature of the skate in the vertical plane along its lower edge has been much more marked, experiments having been tried with blades having all degrees of curvature, varying from two to twelve feet radius.

The curvature most usually adopted is that having a radius of seven feet, as this best combines the means of turning with facility, with the least obtainable loss of power through friction. If a figure skater simply skated curves without turns, a skate having a radius of nine, or even twelve feet, would suit him best, because a greater bearing surface would be in contact with the ice, and consequently, the weight of the skater being more distributed, the cutting in and resulting friction would be less; but such a skate presents so broad a pivot, that turning with facility becomes impossible.

144, NEW BOND STREET, LONDON.

PROV. BIBL. FRIESLAND



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Towards the end of last skating season, Captain Dowler, a member of the Skating Club, astonished the other members by bringing to the club ice a skate made with *concave* sides. Several of the members tried it, and it was obvious, not only that it worked well, but that all movements were skated with very much greater ease and power on it than on the old form of blade. I myself gave it a good trial, and was so impressed with its merits that I persuaded Captain Dowler to go at once to a patent agent and file a specification of his invention. In this he says: "My invention relates to the construction of skate blades, in such a manner as to facilitate their use, especially for movements in curves. For this purpose, instead of making the blade with flat or straight sides, as it is usually made, or with convex sides, as it has been sometimes made, I make it with concave sides, so that the blade is thinnest at or about the middle of its length, and widens out both ways towards the end, the increase of thickness resulting from a gentle curvature to which the concavity is formed." And further on he says: "The skate blade is hollowed out at the sides so that it is thinnest at or near the middle of its length, and swells out in thickness with a gentle curvature towards the ends. Owing to the vertical curvature at the lower edge of the blade, the skate, when vertical, will rock or tilt lengthwise, and also if it had straight sides, and still more if it had convex sides, it would rock or tilt lengthwise, when inclined from the vertical; but by making the sides more or less hollow or concave, according to my invention, there will be a diminution of such lengthwise rocking or tilting movement when the skate is inclined from the vertical, as for running in curves—that is to say, there will in such attitudes be a greater portion of the length of the blade in actual or approximate contact with the ice, and this is practically found to give increased stability as well as facility in traversing curves."

As a fact, it practically comes to this: that the new form of skate blade gives the figure skater that which he has so long desired, namely, the increased bearing surface and absence of friction which a nine or ten foot radius would give him in skating curves, combined with the facility of turning given by a skate having a seven foot radius; and this will be readily seen if the skate be placed in a vertical position. The seven foot radius to which most skates are ground, enables them to be pivoted easily; but immediately the skate is deflected to such an angle as is

ESTABLISHED 1734.

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usual when a curve is skated, the advantage of the side concavity becomes apparent, as the bearing surface then assumes that of a skate having a nine or ten foot radius. And this is not all; it has another great advantage over the old blade in this way: in skating, one of the great sources of loss of power is the inability of always placing the striking foot at right angles to the gliding foot in the act of striking, and the consequent partial or actual slip of the skate. The concavity of the new form of blade in a great measure corrects this slipping, and the increased power thus obtained is quite astonishing. It may occur to some skaters, as it did to me before I actually tried Captain Dowler's skate, that curves coincident with the radius of the concavity would be rendered easier, but that curves either larger or smaller than the radius of the concavity would become more difficult. As a fact, this is not the case, curves of all sizes being skated with equal facility; and I feel convinced that no figure skater who tries the new form of blade will ever revert to the old straight-sided skate.

Messrs. THORNHILL & CO., of New Bond Street, have a Licence for the manufacture of these skates. They have shown me a capital plan for adapting the new blade to the B.B. footstock. As usually made, the blades of the B.B. skates are bolted to the footstock with four rivets. When the blade requires grinding, it has to be removed, and to do this the rivets have to be filed off. Messrs. Thornhill have substituted for these rivets four bolts with screws and nuts, so that the blade can be removed at pleasure; and any skater having these skates, with *two* sets of the new blades so fastened, may feel confident of never losing a day's skating for want of skates, as one set of blades may be in use while the other is being ground. It must not be overlooked that manufacturers are shy of making a large stock of any new invention; therefore skaters, in order not to be disappointed, had better order their skates before the winter is upon them. A model of Messrs. Thornhill's improved B.B. skate with the Dowler blade, can be seen at *The Field* office, and 144, New Bond Street.

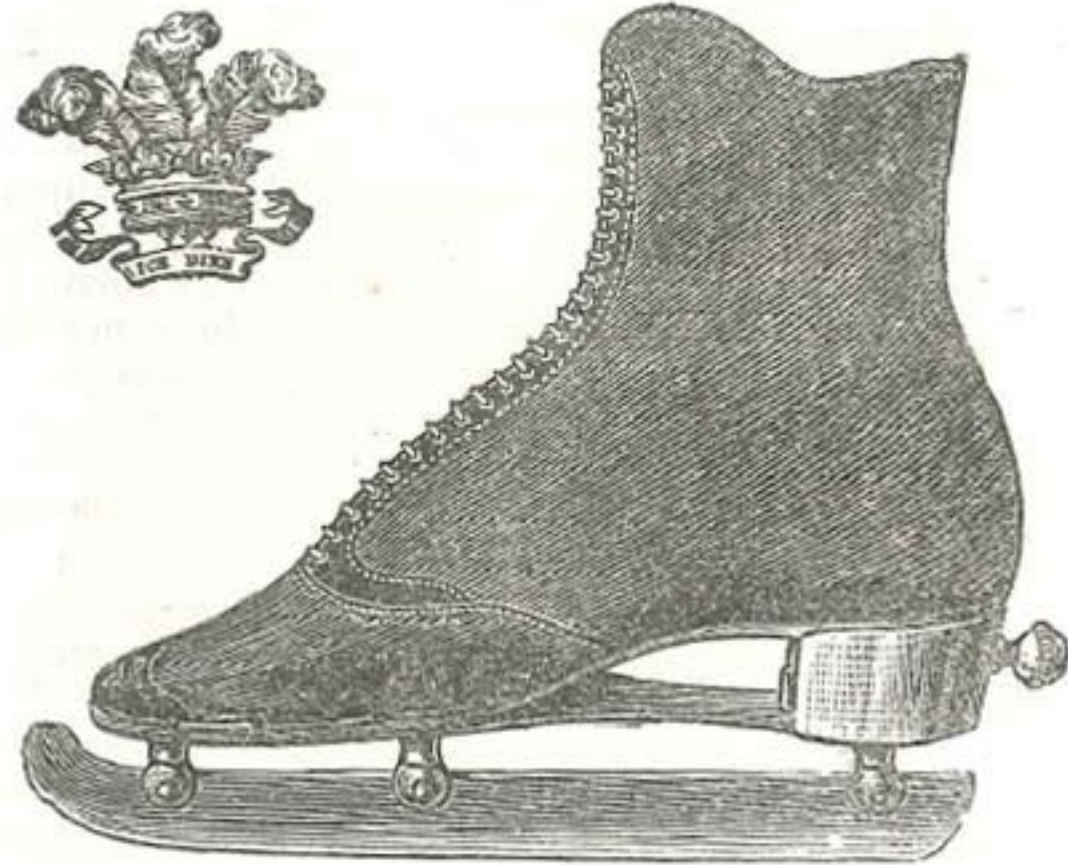
*The Field* Newspaper, October 11, 1879.

144, NEW BOND STREET, LONDON.

To their R.H. the Prince and Princess of Wales  
and the Royal Family.

## Thornhill's Steel Plate Skate.

*As manufactured for their Royal Highnesses the Prince and Princess of Wales.*



An extremely light and elegant Skate, easily put on, and can be worn with light thin-sole boots.

### PRICES.

	£	s.	d.
With the ordinary London-made Club Pattern Blades .. .. .	2	15	0
If with ordinary Dowler Blades (the radius from the centre of the Skate) .. .. . Extra	0	5	0
For radius set back .. .. .	0	3	6
For Hollowed Sides (to lighten the Skates), known as the Witham Improvement .. .. . Extra	0	6	6

The price, complete, with one pair of Dowler Blades, with improvements .. 3 10 0

### EXTRA BLADES PER PAIR.

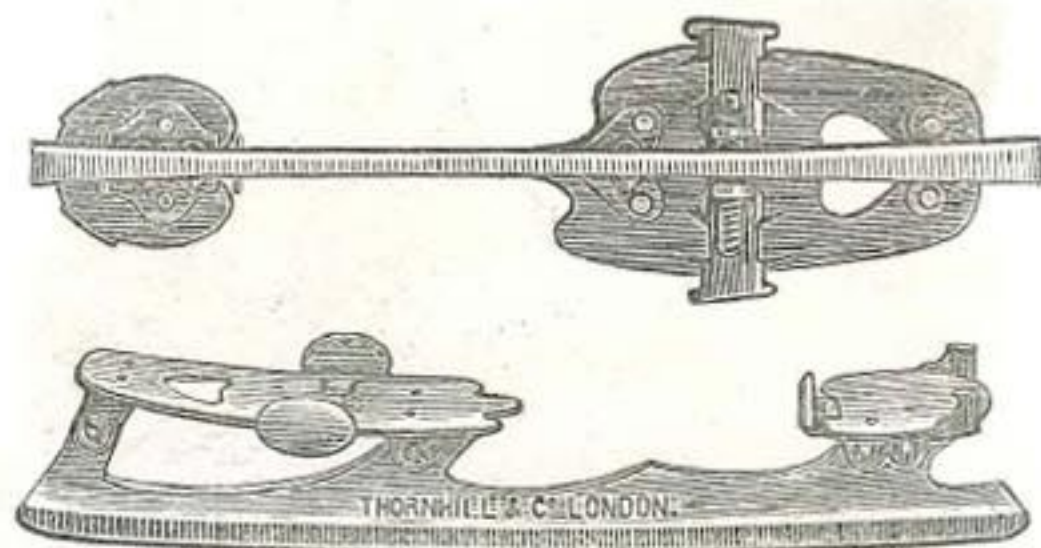
Ordinary London Club Pattern Blades, to change .. .. .	0	15	0
Ordinary Dowler Blades .. .. .	1	0	0
Dowler Blades, with radius set back .. .. .	1	3	6
"    "    "    Witham Improvement .. .. .	1	10	0
For Screws and Nuts to change the Blades .. .. .	0	3	6

*In ordering the above Skates it is necessary to send the Boots.*

ESTABLISHED 1734.

## THORNHILL'S B. B. SKATE.

IS A FAVOURITE AMONG THE MEMBERS OF THE LONDON SKATING CLUB, BEING QUICKLY AFFIXED TO ANY BOOT, AND AS READILY REMOVED.



## PRICES.

	£ s. d.
With ordinary Club Pattern LONDON MADE Blades .. .. .	1 5 0
If with ordinary Dowler Blades (the radius from the centre of the Skate) .. .. . Extra	0 5 0
For radius set back .. .. .	0 3 6
For Hollowed Sides (to lighten the Skates), known as the Witham Improvement .. .. . Extra	0 6 6
The price, complete, with one pair of Dowler Blades, with all improvements	<u>2 0 0</u>

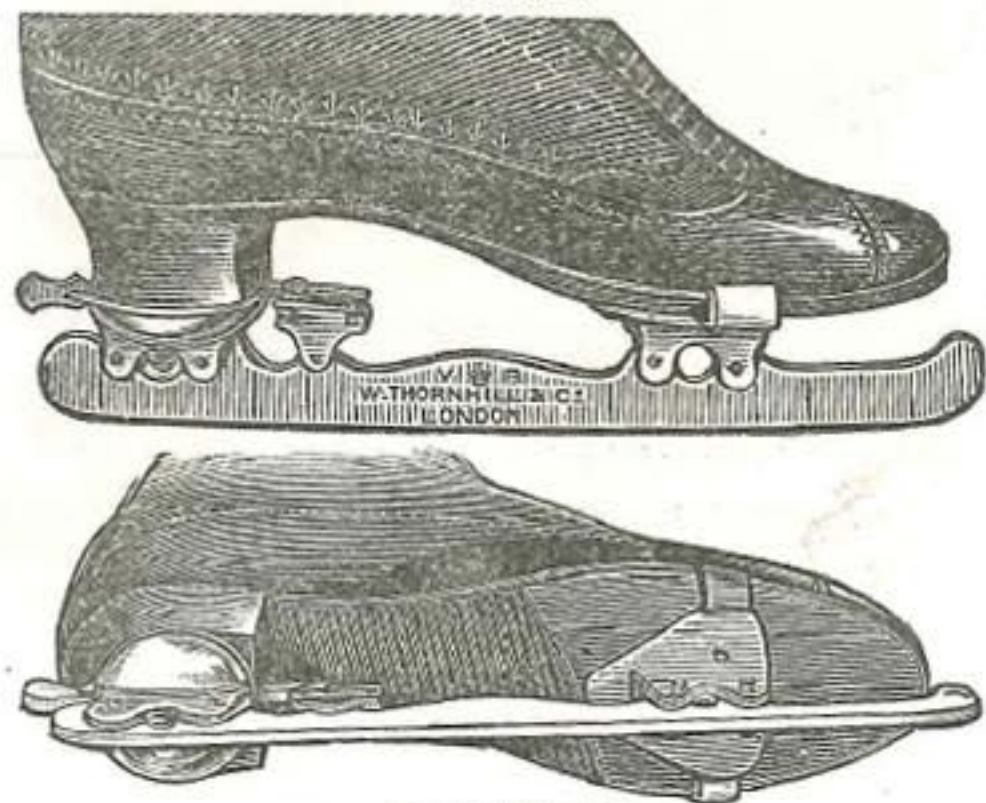
## EXTRA BLADES, PER PAIR.

Ordinary London Club Pattern Blades, to change .. .. .	0 15 0
Ordinary Dowler Blades .. .. .	1 0 0
Dowler Blades, with radius set back .. .. .	1 3 6
" " " Witham Improvements .. .. .	1 10 0
For Screw-bolts and Nuts, for changing the Blades .. .. .	0 3 6

144, NEW BOND STREET, LONDON.

## THORNHILL'S SKELETON TURN-TABLE SKATE.

The most easily attached of all Skates made. There is a small plate let into the heel of the boot, into which the T on the Skate fits; then by turning the table of the heel of the Skate it adjusts itself, and the skate is securely fixed until it is required to be removed, when, by merely turning the table back, the Skate is at once released.



## PRICES.

	£ s. d.
With ordinary Club Pattern London-made Blades .. .. .	2 10 0
If with ordinary Dowler Blades (the radius from the centre of the Skate) .. .. . Extra	0 5 0
For radius set back .. .. .	0 3 6
For Hollowed Sides (to lighten the Skates), known as the Witham Improvement .. .. . Extra	0 6 6
The price, complete, with one pair of Dowler Blades with all Improvements	<u>3 5 0</u>

## EXTRA BLADES, PER PAIR.

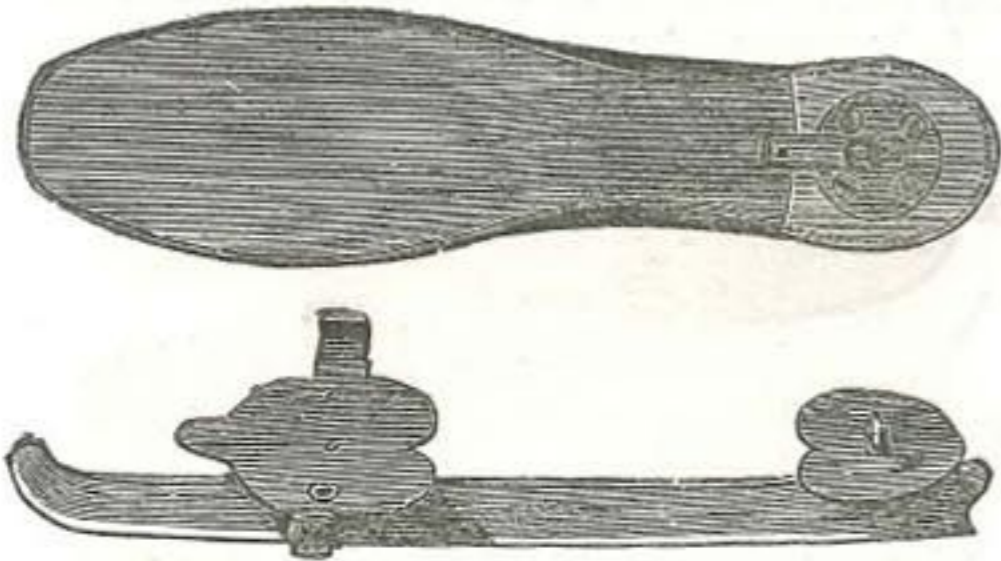
Ordinary London Club Pattern Blades, to change .. .. .	0 15 0
Ordinary Dowler Blades .. .. .	1 0 0
Dowler Blades, with radius set back .. .. .	1 3 6
" " " Witham Improvements .. .. .	1 10 0
For Screw Bolts and Nuts, for changing the Blades .. .. .	0 3 6

*In ordering the above Skates it is necessary to send the Boots.*

ESTABLISHED 1734.

THORNHILL'S CLAMP SKATE.

ESPECIALLY ADAPTED FOR LADIES.



This may fairly be said to be one of the BEST SKATES INVENTED, being attached or taken off in an instant, requiring no Strap or previous adjustment.

PRICES.

	£	s.	d.
With-ordinary Club Pattern London-made Blades .. .. .	2	10	0
If with ordinary Dowler Blades (the radius from the centre of the Skate) .. .. . Extra	0	5	0
For radius set back .. .. .	0	3	6
For Hollowed Sides (to lighten the Skates), known as the Witham Improvement .. .. . Extra	0	6	6
The price, complete, with one pair of Dowler Blades, with all improvements	<u>3</u>	<u>5</u>	<u>0</u>

EXTRA BLADES, PER PAIR.

Ordinary London Club Pattern Blades, to change .. .. .	0	15	0
Ordinary Dowler Blades .. .. .	1	0	0
Dowler Blades, with radius set back .. .. .	1	3	6
"    "    "    Witham Improvements .. .. .	1	10	0
For Screw Bolts and Nuts for changing the Blades .. .. .	0	3	6

In ordering the above Skates it is necessary to send the Boots.

144, NEW BOND STREET, LONDON.

THE MOUNT CHARLES SKATE.

SUITABLE FOR LADIES OR GENTLEMEN.



The LIGHTEST Skate made, being screwed to the sole of the boot, it cannot get loose, and weighs but little more than the blade.

PRICES.

	£	s.	d.
With ordinary Club Pattern, London-made Blades .. .. .	1	7	0
If with ordinary Dowler Blades (the radius from the centre of the Skate) .. .. . Extra	0	5	0
For radius set back .. .. .	0	3	6
For Hollowed Sides (to lighten the Skate), known as the Witham improvement .. .. . Extra	0	6	6
The price, complete, with one pair of Dowler Blades, with all improvements	<u>2</u>	<u>2</u>	<u>0</u>

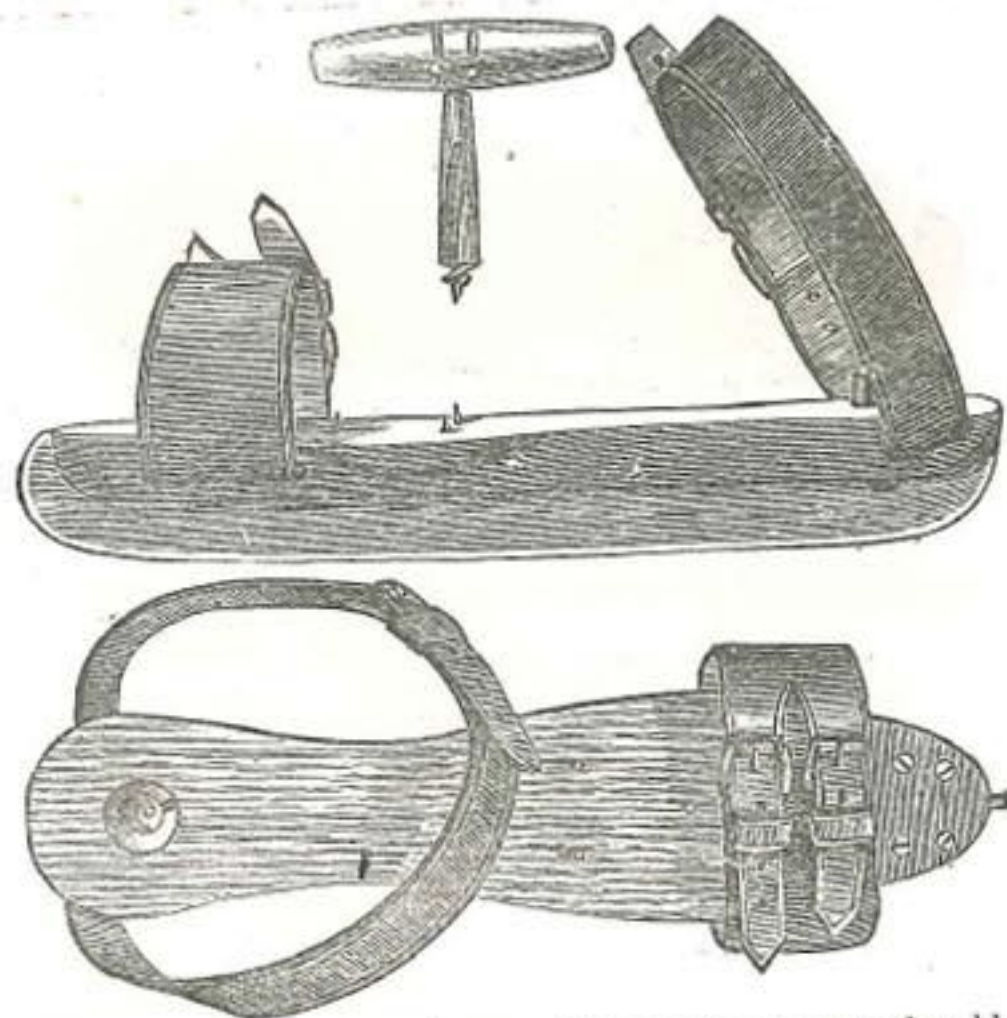
EXTRA BLADES PER PAIR.

	£	s.	d.
Ordinary London Club Pattern Blades, to change .. .. .	0	15	0
Ordinary Dowler Blades .. .. .	1	0	0
Dowler Blades, with radius set back .. .. .	1	3	6
"    "    "    Witham improvements .. .. .	1	10	0
For Screw Bolts and Nuts, for changing the Blades .. .. .	0	3	6

ESTABLISHED 1734.

WALTER THORNHILL & CO.,

The CLUB PATTERN STRAP SKATE.



This, with the broad toe-strap, is a great improvement upon the old pattern.

PRICES.

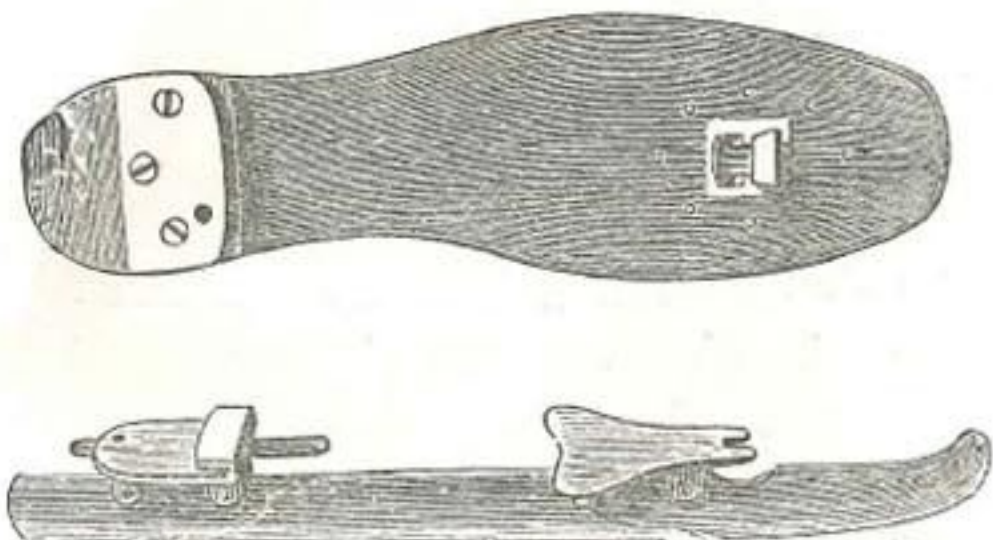
	£	s.	d.
With ordinary Club Pattern London-made Blades .. .. .	1	6	6
If with ordinary Dowler Blades (the radius from the centre of the Skate) .. .. . Extra	0	5	0
For radius set back .. .. .	0	3	6
For Hollowed Sides (to lighten the Skates), known as the Witham Improvement .. .. . Extra	0	6	6
The price, complete, with one pair of Dowler Blades, with all Improvements .. .. .	2	1	6
EXTRA BLADES, PER PAIR.			
Ordinary London Club Pattern Blades, to change .. .. .	0	15	0
Ordinary Dowler Blades .. .. .	1	0	0
Dowler Blades, with radius set back .. .. .	1	3	6
" " Witham Improvements .. .. .	1	10	0
" " GIMLETS, 1s., German Silver Barrel ditto, 2s. 6d.			

144, NEW BOND STREET, LONDON.

Cutlery to the Queen.

THORNHILL'S CANADIAN SKATE.

SUITABLE ONLY FOR GENTLEMEN.



Is an approved pattern, much used by experienced skaters.

PRICES.

	£	s.	d.
With ordinary Club Pattern London-made Blades .. .. .	2	10	0
If with ordinary Dowler Blades (the radius from the centre of the Skate) .. .. . Extra	0	5	0
For radius set back .. .. .	0	3	6
For Hollowed Sides (to lighten the Skates), known as the Witham Improvement .. .. .	0	6	6
The price, complete, with one pair of Dowler Blades, with all improvements .. .. .	3	5	0

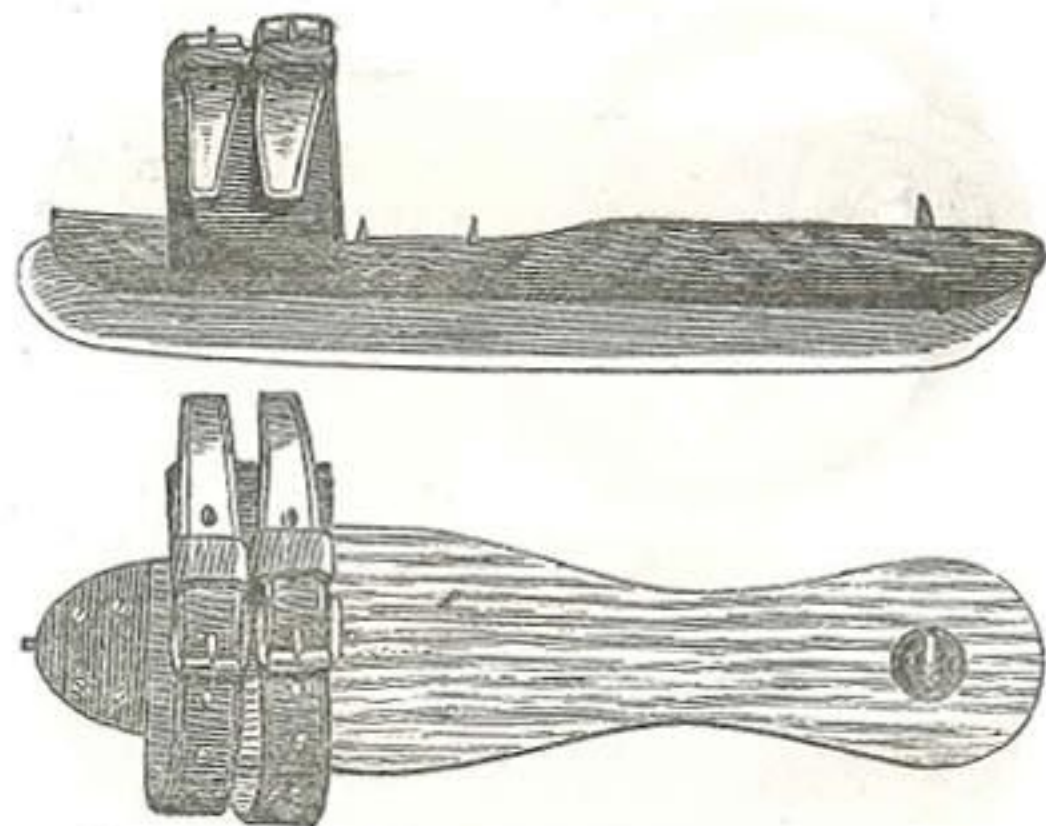
EXTRA BLADES, PER PAIR.

Ordinary London Club Pattern Blades, to change .. .. .	0	15	0
Ordinary Dowler Blades .. .. .	1	0	0
Dowler Blades, with radius set back .. .. .	1	3	6
" " Witham Improvements .. .. .	1	10	0
For Screw Bolts and Nuts, for changing the Blades .. .. .	0	3	6

In ordering the above it is necessary to send the boots, also for the Steel Plate, the Turntable, and the Clamp Skates.

ESTABLISHED 1734.

## THORNHILL'S T PLATE SKATE.



A good pattern, being securely fixed with a toe-strap.

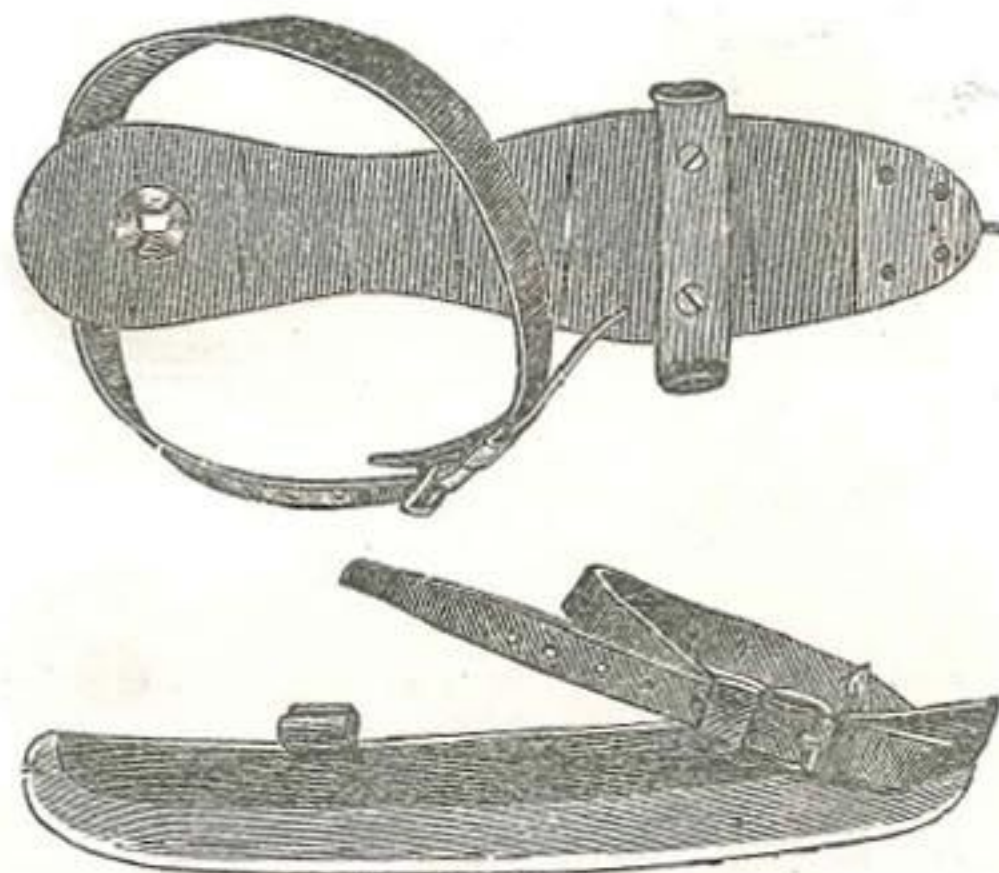
## PRICES.

With ordinary Club Pattern London-made Blades .. .. .	£ s. d.
If with ordinary Dowler Blades (the radius from the centre of the Skate)	1 13 6
Extra	0 5 0
For radius set back .. .. .	0 3 6
For Hollowed Sides (to lighten the Skates), known as the Witham improvement .. .. .	0 6 6
Extra	0 6 6
The price, complete, with one pair of Dowler Blades with all improvements	<u>2 8 6</u>

## EXTRA BLADES, PER PAIR.

Ordinary London Club Pattern Blades, to change .. .. .	0 15 0
Ordinary Dowler Blades .. .. .	1 0 0
Dowler Blades, with radius set back .. .. .	1 3 6
" " Witham Improvement .. .. .	1 10 0

## The CLUB PATTERN CLAMP SKATE.



A capital pattern, entirely doing away with the necessity of straps, although it is usually worn with a single heel strap, to come across the instep, thus preventing the possibility of getting loose.

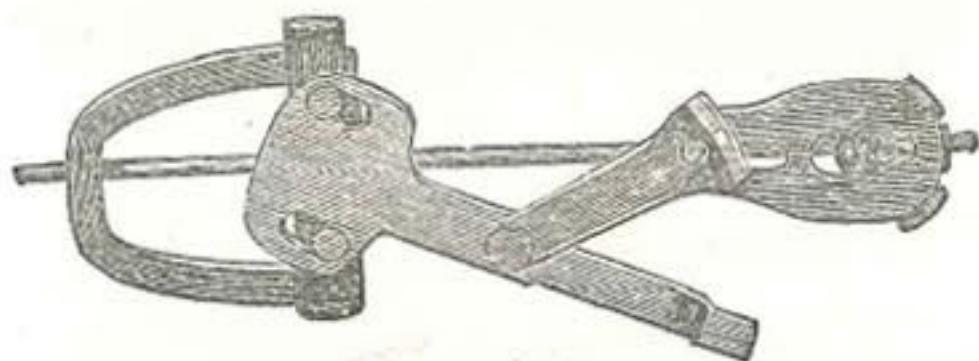
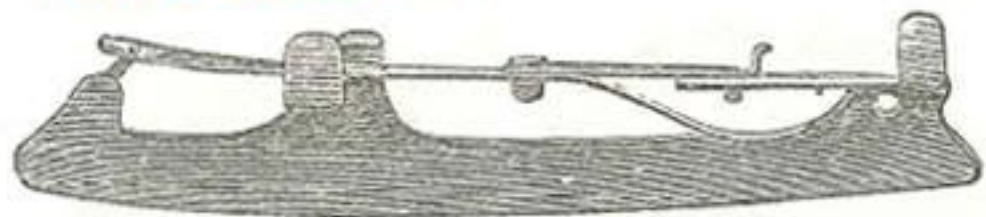
## PRICES.

With Ordinary Club Pattern London-made Blades ... .. .	£ s. d.
If with ordinary Dowler Blades (the radius from the centre of the Skate)	1 18 6
Extra	0 5 0
For Radius set back .. .. .	0 3 6
For hollowed sides (to lighten the Skate), known as the Witham improvement .. .. .	0 6 6
Extra	0 6 6
	<u>2 13 6</u>

## EXTRA BLADES, PER PAIR.

Ordinary London Club Pattern, Blades to change .. .. .	0 15 0
Ordinary Dowler Blades .. .. .	1 0 0
Dowler Blades, with radius set back .. .. .	1 3 6
" " " Witham improvement .. .. .	1 10 0

## THE ACME CLUB SKATE.



Has to be adjusted to the boots, but when this is done they are fixed or removed in a moment.

## PRICES.

	£	s.	d.
The best quality Acme Club Skate, Screws and Nuts examined and guaranteed by W. T. & Co. .. .. .	0	15	0
With ordinary Dowler Blades (the radius from the centre of the Skate) Extra	0	5	0
For radius set back .. .. .	0	3	6
For Hollowed Sides (to lighten the Skates), known as the Witham improvement .. .. . Extra	0	6	6
The price, complete, with one pair of Dowler Blades with all Improvements .. .. .	1	10	0

## EXTRA BLADES, PER PAIR.

Ordinary London Club Pattern Blades, to change .. .. .	0	15	0
Ordinary Dowler Blades .. .. .	1	0	0
Dowler Blades, with radius set back .. .. .	1	3	6
" " " Witham Improvement .. .. .	1	10	0
For Screw Bolts and Nuts for changing the Blades .. .. .	0	3	6

144, NEW BOND STREET, LONDON.

## COUNTRY-MADE SKATES.

BEST QUALITY.

COMPLETE, WITH STRAPS ... .. 12/6 PAIR.

GIMLETS for ditto 1/- each.

WALTER THORNHILL & CO.,

Being actual Manufacturers, and having their Workshops in London, are enabled to undertake the alteration, repairing, and sharpening of any Skates with the shortest delay.

PRICE OF SHARPENING SKATES, 2/- PER PAIR.

## BEST LONDON-MADE STRAPS.

Broad Toe Straps .. .. .	3/-	pair.
Long Heel Straps .. .. .	1/6	"

ESTABLISHED 1734.