

:: Portable ::
Screen Frames
and
Lantern Fittings.

Catalogue No.

1/12.

Manufactured
by
James Christie & Sons
Sheffield,
Eng.

CATALOGUE 1/12.

Screen Frames & Fittings.

WHOLESALE TERMS.

National Screen Frames	}				
All Metal ,, ,,		....	....	....	40%
Demonstration,, ,,					
Professional Screen Frames		....	....	....	33%
Home Outfit complete	....	....	....	....	33%
Spare Frame parts	....	....	....	....	40%
Lantern Tripods	....	....	....	....	40%
National Screens	....	....	....	....	33%
Slide Boxes	quantities of one dozen of a pattern	....			50%
,, ,,	small lots. ...	....	....	....	45%
Lantern Fittings	quantities of one dozen of a pattern				50%
,, ,,	small lots	....	....	....	45%

Screen Frames are sent carriage forward, and we hold a large stock of parts ready for assembling so that rush orders may be despatched the same day.

Packing is FREE.

Accounts are rendered on the first of each month, and if over 10/- are subject to a settlement discount of $2\frac{10}{2}\%$ for payment during the month.

PORTABLE SCREEN FRAMES

SLIDE BOXES AND LANTERN FITTINGS

CATALOGUE No. 1/12.

A LARGE Stock of Finished Screen
Frame Parts is held in our Store
Rooms, customers can therefore depend on
quick delivery.

¶ URGENT ORDERS should be tele-
graphed to reach us not later than 11 a.m.
if the Frame is to be sent off the same day.

¶ Our Telegraphic Address is
"CHRISTIE, SHEFFIELD."

¶ This Catalogue cancels all previous issues.

JAMES CHRISTIE & SONS

244, 246, 248, WEST STREET,

SHEFFIELD

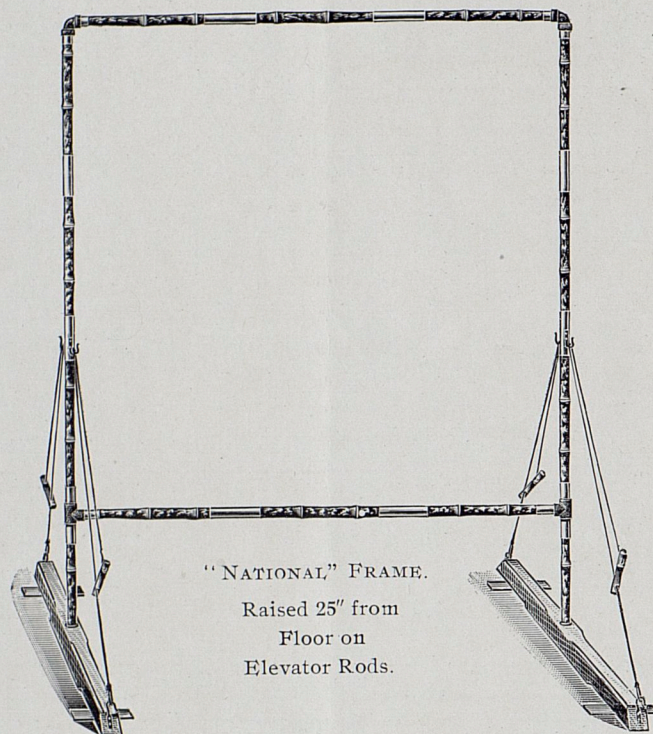
ENG.

TELEGRAMS:
"CHRISTIE, SHEFFIELD."

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PORTABLE SCREEN FRAMES.

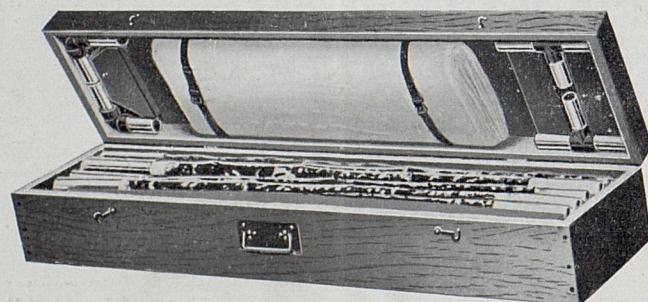
THE "NATIONAL."



THE BAMBOO SCREEN FRAME has many advantages, but probably the chief reason for its undoubted popularity is the great strength of the canes. In addition the saving in weight is considerable; a point of real importance where a frame has to be carried from place to place.

Four different diameters of cane are used for the standard frames, the first two $\frac{3}{4}$ " and $\frac{5}{8}$ " being a light yellow cane known as **Tonking**, specially suitable for the smaller sizes. The heavier frames are made from **Mottled Tortoise Canes**, of $1\frac{1}{8}$ " and $1\frac{1}{4}$ " diameter, and are consequently more serviceable.

We strongly recommend Tortoise Canes for frames of 12 feet square and upwards.



James Christie & Sons,
Sheffield.

THE "NATIONAL" FRAME—continued.

Every frame is sent out with all fittings and stretcher ropes complete in substantial wooden case, but the outfit does not include the two elevator rods, as in many cases these are unnecessary.

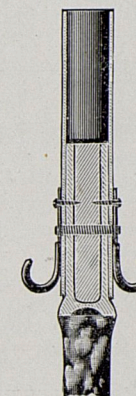
If **Elevator Rods** are wanted, give the height above the ground the frame is to be raised.

The **Corner Joints** and **Connecting Tubes** are made from **Mandril Drawn Brass Tubes** guaranteed correct to 1/1000 of an inch, which ensures interchangeability of every rod. All fittings are polished and lacquered.

Both ends of the canes are plugged solid with wood, fitted and glued in, as a safeguard against breakage should the cane get accidentally crushed.

The new form of **Hook Fastener** shown has proved thoroughly satisfactory, and it is now used for all sizes. No amount of pull on the ropes will loosen the hooks.

The combined storage and carrying case is of well-seasoned Red Deal, screwed together, varnished and fitted with steel handle and clasps. The inside of the lid holds the corner fittings, space is also provided for the screen which is held securely in place by means of leather straps.



PRICES OF "NATIONAL" FRAMES.

BAMBOO.

Canes $\frac{3}{4}$ " Dia.

Inside Dia. of Tubes, $\frac{23}{32}$ " approx.

No.				
1	6 feet square	...	...	£1 1 0
2	8 "	...	...	1 4 0
3	9 "	...	...	1 5 0
Elevator Rods, with Tube Joint, $25\frac{1}{2}$ " or $37\frac{1}{2}$ "				
2/- per pair.				

Canes $\frac{5}{8}$ " Dia.

Inside Dia. of Tubes, $\frac{3}{4}$ " approx.

No.				
5	8 feet square	...	...	£1 6 0
6	9 "	...	...	1 7 6
7	10 "	...	...	1 11 0
8	12 "	...	...	1 12 6
Elevator Rods, with Tube Joint, $25\frac{1}{2}$ " or $37\frac{1}{2}$ "				
2/- per pair.				

Canes $1\frac{1}{8}$ " Dia.

Inside Dia. of Tubes, $1\frac{1}{32}$ " approx.

No.				
15	9 feet square	...	...	£1 15 0
16	10 "	...	...	2 0 0
17	12 "	...	...	2 2 0
18	14 "	...	...	2 5 0
19	16 "	...	...	2 8 0
Elevator Rods, with Tube Joint, $25\frac{1}{2}$ " or $37\frac{1}{2}$ "				
2/6 per pair.				

Canes $1\frac{1}{4}$ " Dia.

Inside Dia. of Tubes, $1\frac{1}{16}$ " approx.

No.				
22	12 feet square	...	...	£2 7 6
23	14 "	...	...	2 12 6
24	16 "	...	...	2 15 0
25	18 "	...	...	3 0 0
26	20 "	...	...	3 3 0
Elevator Rods, with Tube Joint, $25\frac{1}{2}$ " or $37\frac{1}{2}$ "				
2/6 per pair.				

We strongly recommend the "PROFESSIONAL" Pattern for Frames over 16 feet square

James Christie & Sons,
Sheffield.

THE "NATIONAL" FRAME—continued.

The "National Frame" is also made with wood poles in place of canes and although this adds to the weight, many frames are bought for continuous use in one place, consequently portability is not of the first consideration.

Two qualities of poles can be supplied, but the Redwood is much the stronger and less liable to wear loose in the fitting.

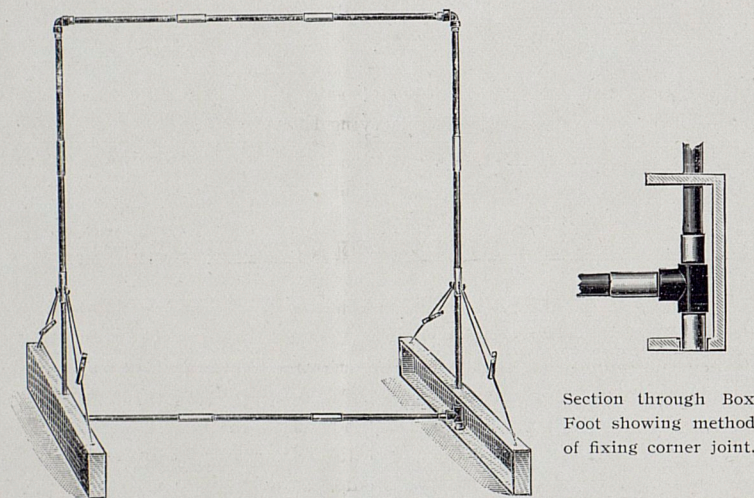
PRICES OF "NATIONAL" FRAMES. WOOD.

Deal Poles 1 $\frac{1}{8}$ " Dia. Inside Dia. of Tubes, 1 $\frac{1}{32}$ " approx.				
No.				
28	8 feet square	...	...	£1 10 0
29	10 "	...	...	1 15 6
30	12 "	...	...	1 17 6
31	14 "	...	...	2 2 6
32	16 "	...	...	2 5 6
Elevator Rods, with Tube Joint, 25 $\frac{1}{2}$ " or 37 $\frac{1}{2}$ ", 2/3 per pair.				

Redwood Poles, 1 $\frac{1}{8}$ " Dia. Inside Dia. of Tubes, 1 $\frac{1}{32}$ " approx.				
No.				
35	8 feet square	...	...	£1 15 0
36	10 "	...	...	2 0 0
37	12 "	...	...	2 2 0
38	14 "	...	...	2 5 0
39	16 "	...	...	2 8 0
Elevator Rods, with Tube Joint, 25 $\frac{1}{2}$ " or 37 $\frac{1}{2}$ ", 2/6 per pair.				

THE "ALL METAL" FRAME.

IN the "ALL METAL" FRAME a light steel cycle tube takes the place of wood or bamboo for the rods; every tube is enamelled to prevent rusting, and standard **Brass Corner Joints** and **Connecting Tubes** are used. The Enamelling is stoved, which not only gives a highly polished surface but ensures a hard coating free from the liability to rub or chip off.



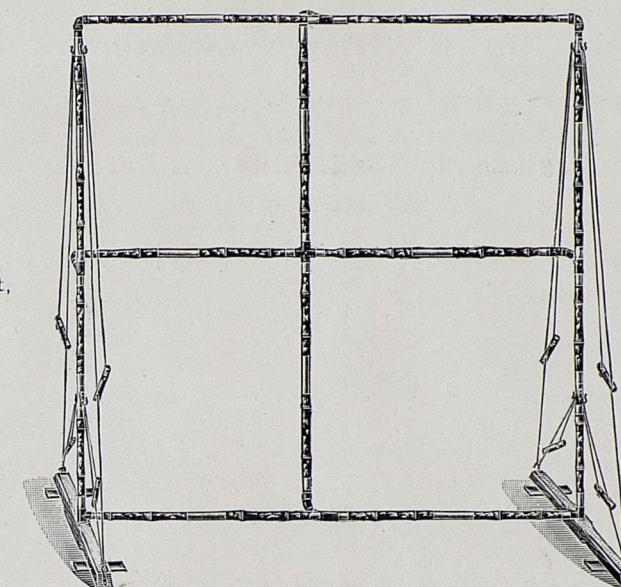
The carrying case is made in two halves, each having a special flanged socket fixed on the inside, it is not therefore necessary to carry the usual wooden feet. One half of the case contains the tubes and rods, the other the screen and corner fittings, which are held in place by leather straps.

PRICES OF "ALL METAL" FRAMES.

8 feet square	...	...	£1 13 6	10 feet square	...	...	£2 0 0
9 "	...	...	1 15 0	12 "	...	...	2 2 0

James Christie & Sons,
Sheffield.

THE "PROFESSIONAL" FRAME.



POLES for 20 feet,
62" long.

POLES for 16 feet,
49 $\frac{1}{2}$ " long.

THE "PROFESSIONAL" FRAME is of similar design to the "National" pattern with the addition of vertical and horizontal tie rods, making this frame specially serviceable. The weight of a 20 feet screen is considerable, and unless some means are used to brace the upright and cross rods together it is impossible to prevent sagging, which leaves the screen wrinkled and unsightly when erected. The tie rods are thrown 1 $\frac{1}{2}$ " behind the outer frame by means of special T connections, the poles are therefore out of contact with the screen and cannot be seen from the front.

For travelling Cinematograph Operators a frame of this type cannot but be appreciated at its full value.

All rods and fittings are interchangeable and the whole outfit is sent out in a stout wooden case with Iron-bound Corners, Clasps and Carrying Handle.

Price of the complete 16 feet square frame	...	...	£4 0 0
" " 20 " "	...	...	4 10 0

THE "DEMONSTRATION" FRAME.

THE "DEMONSTRATION" FRAME is designed to occupy as little space as possible and is specially suitable for School Lectures, Instruction Classes, etc., or wherever the whole operating outfit has to be carried about continually. The canes are 24" long only the minimum size for quick erection with **Brass Tubes** and **Corner Joints** similar to the "National."

The case is made in two parts, each half acting in place of the usual wooden foot. A brass socket fixed inside receives the projecting pin of the corner and the upright is then passed through a hole in the upper side of the half case and pushed down into the corner. This construction saves the weight of two wooden feet.

The "All Metal" Frame shows the method of fixing the box feet.

PRICES OF DEMONSTRATION FRAMES.

8 feet square frame complete	...	...	£1 10 0 each
10 " " " "	...	...	1 14 0 "
12 " " " "	...	...	1 17 6 "

James Christie & Sons,
Sheffield.

THE "HOME" FRAME.

Complete with 9 feet Screen in Canvas Case.

THIS frame is intended for home use and is of very light construction, the fittings are enamelled instead of polished, and although the frame is very serviceable for occasional use, it has not the wearing qualities of the "National" Frame.

Made in one size only, 9 feet, with screen in mailcloth case, 30/- each.

SPARE PARTS FOR SCREEN FRAMES.

FITTINGS.				CANES.				
				EACH		EACH		
				s. d.		s. d.		
Angle Joints (Top Corner)—				Bamboo—				
for frames Nos. 1 to 3	...	...	1 9	for frames Nos. 1 to 3	...	25½"	0 6
" " " 5 to 8	...	...	1 9	" " " "	...	37½"	0 6
" " " 15 to 19	...	...	2 0	" " " 5 to 8	...	25½"	0 6
" " " 22 to 26	...	...	2 9	" " " "	...	37½"	0 6
" " " 28 to 39	...	...	2 0	" " " 15 to 19	...	25½"	0 6
" " " " " Demonstration " Frame	...	...	1 9	" " " "	...	37½"	0 8
" " " " " All Metal "	...	...	1 9	" " " "	...	49½"	0 8
" " " " " Professional "	...	...	2 9	" " " 22 to 26	...	25½"	0 6
				" " " "	...	49½"	0 9	
				" " " " " Demonstration " Frame	...	25½"	0 6	
				" " " " " Professional "	...	62"	0 9	
T Joints (Bottom Corner)—				Steel Tubes—				
for frames Nos. 1 to 3	...	...	2 0	for "All Metal " Frame	...	37½"	1 6
" " " 5 to 8	...	...	2 0	" " " "	...	25½"	1 3
" " " 15 to 19	...	...	2 6				
" " " 22 to 26	...	...	3 3				
" " " 28 to 39	...	...	2 6				
" " " " " Demonstration " Frame	...	...	2 0				
" " " " " All Metal "	...	...	2 0				
" " " " " Professional "	...	...	3 3				
Connecting Tubes—				Wood Poles—				
for frames Nos. 1 to 3	...	...	0 6	for frames Nos. 28 to 32	...	25½"	0 5
" " " 5 to 8	...	...	0 6	" " " "	...	49½"	0 7
" " " 15 to 19	...	...	0 7½	" " " 35 to 39	...	25½"	0 6
" " " 22 to 26	...	...	0 8	" " " "	...	49½"	0 8
" " " 28 to 39	...	...	0 7½				
" " " " " Demonstration " Frame	...	...	0 6				
" " " " " All Metal "	...	...	0 6				
" " " " " Professional "	...	...	0 7½				
				Guy Ropes and Stretchers for 6, 8, 9				
				and 10 feet Frames ...Set of 4				1 6
				12, 14 & 16 feet Frames " " "				2 6

Bamboo and Wood Poles are always cut 1½" longer than the nominal length to allow for stretching the Screen tightly; thus a 12 feet frame when erected will actually measure 12ft. 6ins. square.

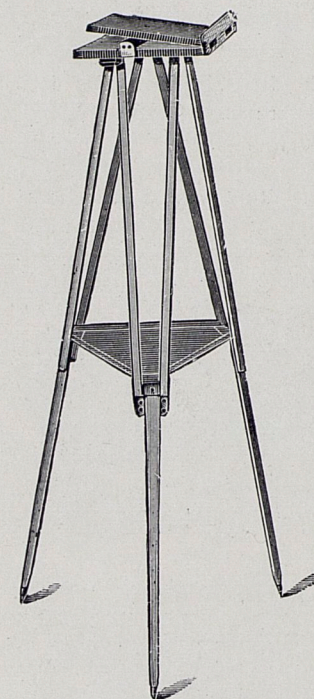
All the parts are interchangeable and smaller size frames can be made up simply by leaving out certain poles. For example: a 12 feet No. 17 frame will also make a 3, 6 or 9 feet.

Carrying Cases can be strengthened at the corners by fitting a **Set of Eight Steel Angle Plates**, at a cost of 4/- per frame.

A strong **Lock** is another useful addition, well worth the extra cost, 2/6.

James Christie & Sons,
Sheffield.

LANTERN TRIPODS.



No. 1 Tripod made in Redwood, varnished. The top is large enough to hold a full size Lecture Lantern, and is fitted with **Hinged Tilting Board** and **Lifting Block**, as illustrated. The shelf is in one piece strengthened by wood straps, which fit over pins projecting from the wood end of the lower leg. This prevents the legs spreading and secures a perfectly rigid tripod.

Height from floor, 54"

Top, 16" x 10"

17/6 each.

No. 2 Tripod made from Hardwood, polished and fitted with lacquered brasswork. The top is tilted by a **Quick-speed Screw**, mounted on a pivot bearing which allows the screw to fold flat against the under side of the top. The legs are rule jointed and support a centre shelf, hinged for convenience in packing.

Height from floor, 54"

Top, 18" x 10"

25/- each.

"NATIONAL" SCREENS.

NATIONAL SCREENS are made from a strong, durable, calico sheeting, hemmed all round, with stout double tapes stitched at intervals round the four sides to ensure a surface free from wrinkles. Two qualities are stocked, the whole difference being in the weight of sheeting used.

Without doubt the best results are obtained from heavy sheeting, as the cheaper quality allows a larger percentage of light to pass through with a corresponding loss of brilliancy in the picture.

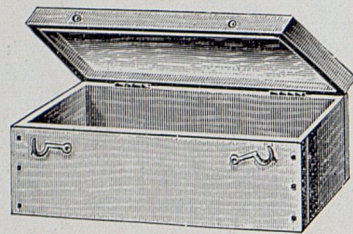
Linen Screens are made up to order.

	No. 1.	No. 2.
6 feet square, taped four sides	8 0	6 0
8 " " "	15 0	10 0
9 " " "	18 0	13 6
10 " " "	£1 0 0	15 6
12 " " "	1 9 0	£1 1 6
14 " " "	1 17 6	1 9 0
16 " " "	2 10 0	1 16 6
18 " " "	3 2 0	2 5 0
20 " " "	3 12 0	2 10 0

James Christie & Sons,
Sheffield.

SLIDE BOXES.

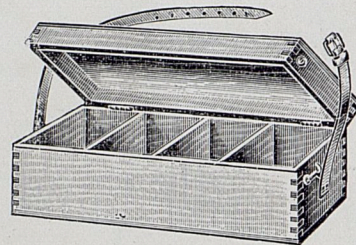
FOR STORAGE AND TRANSIT.



No. 1.—Plain Deal Storage Box holding 72 Slides, with deep hinged lid and Brass Clasps, unvarnished. 1/- each.

No. 2.—Box exactly as above but fitted with Brass Ticket Holder and Pull on end of box. 1/6 each.

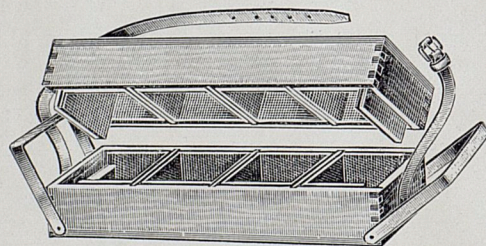
No. 4.—Light Transit Box made from best Red Deal, varnished, four compartments to hold 72 Slides, fitted with Brass Hinges and Clasps on each end. Leather Strap Handle, buckled in centre, screwed securely to each end. 2/3 each.



No. 7.—The "Fall Front" Box is made with either 3, 4 or 5 compartments, each holding 25 Slides laid flat as shown, the hinged front allows the slides to be lifted out very easily. Made up from well-seasoned Canarywood with strong divisions, polished all over and lined with thick felt. Both the fall front and lid have wood key straps let into each end to prevent warping. A substantial carrying Strap and Hook Clasps are fitted.

To carry	75 Slides	...	...	4/- each
"	"	100	"	4/6 "
"	"	125	"	5/- "

No. 8.—The "Turnover" Box is a very serviceable pattern being divided along the length into equal halves. The upper half is lifted right off and inverted to receive the slides as they pass through the lantern, the empty lower half is then turned over and used as a lid. Made of Canarywood with three-ply partitions, polished and lined throughout with heavy felt to protect the slides. The two halves are held in place by projecting wood lugs, and secured by flat Brass End Clips. A Leather Strap Handle with centre buckle completes the box. Capacity 72 Slides. 4/- each.

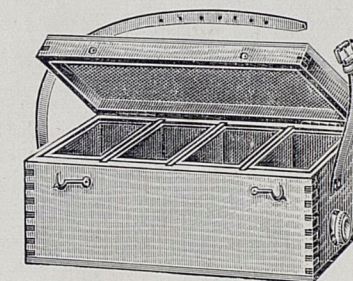
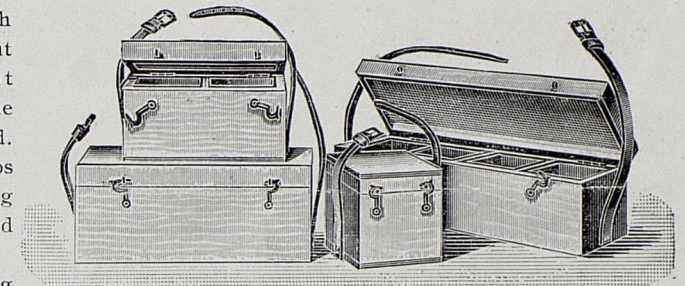


James Christie & Sons,
Sheffield.

SLIDE BOXES—continued.

No. 9.—The "Ever Ready" Box made from hard Maple, French polished, and lined throughout with thick felt to prevent breakage of slides should the box be accidentally dropped. Strong Brass Hinges and Clasps are fitted and the carrying handle is best English Tanned Leather, with centre buckle. Four sizes are stocked, carrying 18, 36, 54 and 72 Slides.

To carry	18 Slides	...	2/6 each.	To carry	54 Slides	...	5/- each.
"	36	"	3/6 "	"	72	"	6/- "



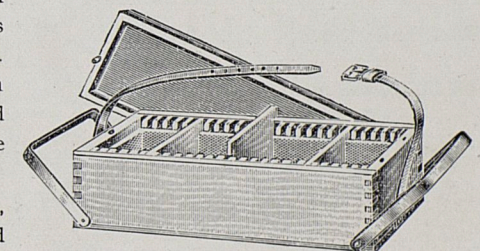
No. 10.—The "Lecturer" Box is of similar construction to the "Ever Ready," holding 72 Slides, made from hard Maple with jointed corners, polished and fitted with Leather Strap Handle.

The feature of this box is the Hot Water Bottle which is built into the base. The upper side of the bottle is covered with a heavy felt pad and the edges of the slides are in contact with the pad right up to the moment they are placed in the lantern. A screw cap projecting from one end of the box provides a simple means of filling the hot water bottle.

The use of a "Lecturer" Box prevents the objectionable steaming which frequently occurs through slides not being thoroughly dried before placing in the lantern. 7/6 each.

No. 12.—The "Traveller" Box has been designed to allow for adjusting the position of the partitions to correspond with the number of Slides carried. Each partition has three projecting lugs which drop into slots cut at intervals along the sides and bottom of the box. Felt lining prevents damage to the Slides.

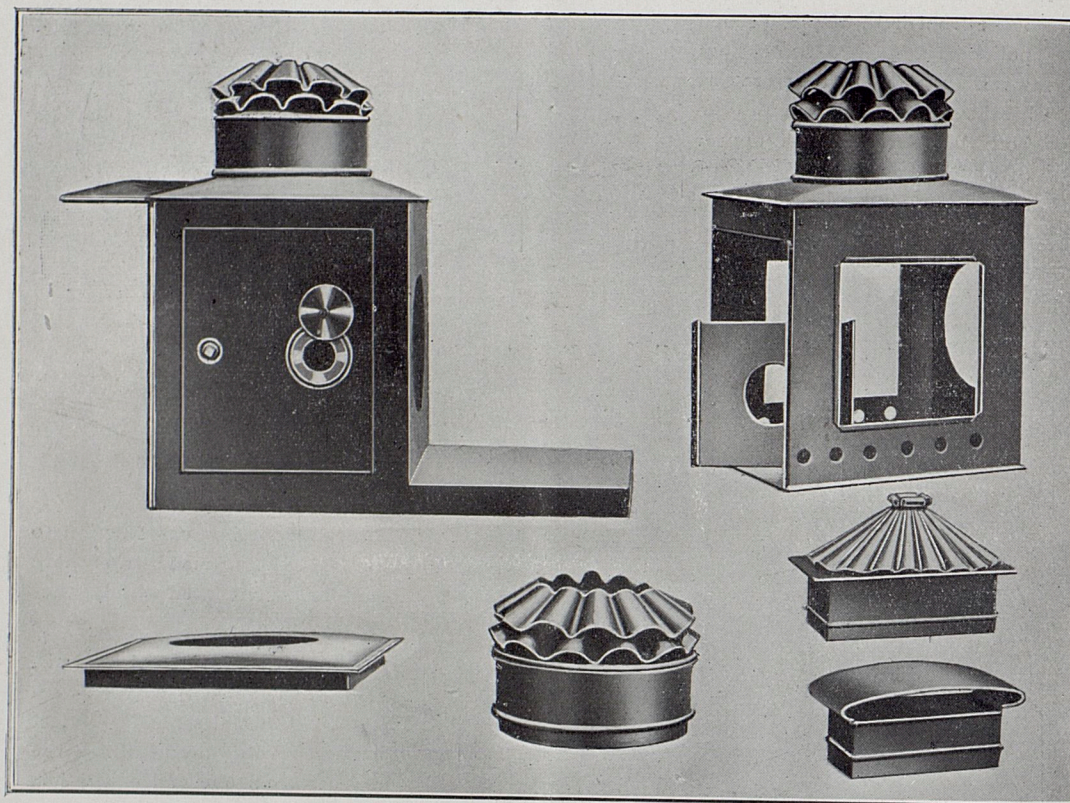
The lid, which is made to lift right off during use, is held in place by round wooden pegs, and secured by turnover Brass Straps at each end. A Leather Strap with centre buckle completes the box. Capacity 72 Slides.



5/6 each.

James Christie & Sons,
Sheffield.

LANTERN FITTINGS.



LANTERN BODY with extended front made in **Russian Iron**, oval rose cowl. Two side doors with fiber knobs and sight holes are fitted, and the back flap acts as a light trap when the curtain is in position. The body is large enough to take an Arc Lamp, the dimensions being 12" long, 12" high, and 7" wide ... **40/-** each

LINING for Mahogany Bodied Lantern made in **Russian Iron** with door covers complete, both the oval cowl and dome are removable. Standard size inside 9" x 9" x 6" ... **15/-** "

DOME to fit lining, 9" x 6", **Russian Iron** ... **4/-** "

OVAL COWL fitting above dome ... **3/6** "

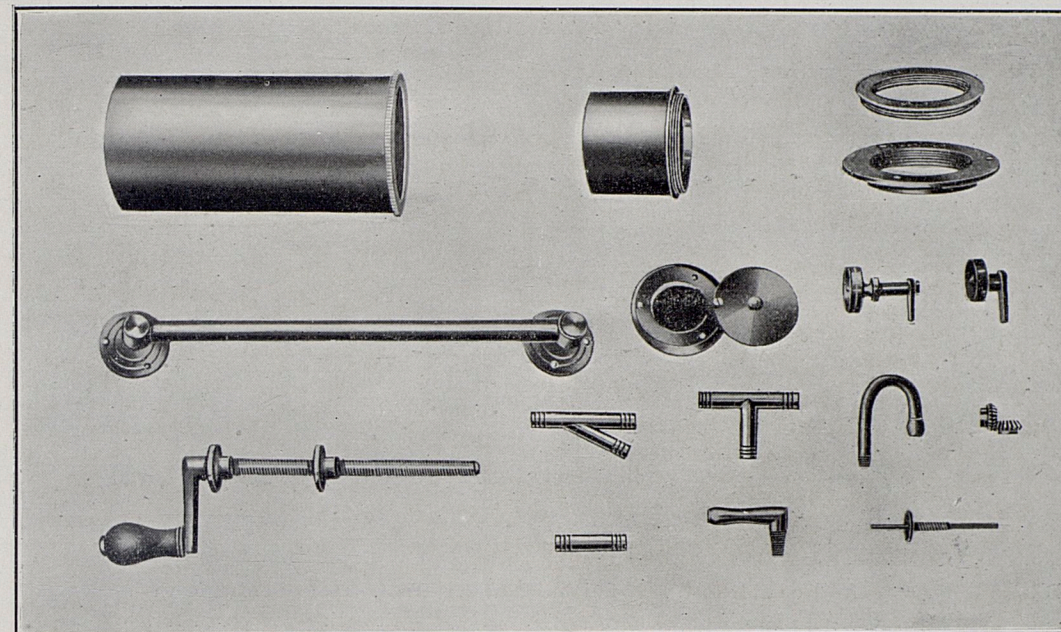
RECTANGULAR COWL fitting opening 5" x 2 1/4" ... **2/-** "

RECTANGULAR COWL, plain pattern, fitting opening 5" x 2 1/4" ... **1/3** "

Russian Iron Bodies and Cowls made to specification.

James Christie & Sons,
Sheffield.

LANTERN FITTINGS—continued.



LENGTHENING TUBES made from strong **Brass Tube**, screwed externally at one end to fit front, and internally at the other to receive the Lens Jacket, highly polished and lacquered.

For use with 8" Lenses.	Tube 2" long	2 1/4" dia.	3" dia.
" 10" "	" 4" "	2/- each	4/- each.
" 12" "	" 6" "	2/9 "	5 6 "
" 12" "	" 6" "	3/6 "	7/- "

LENS FLANGES turned and finished all over to take any Lens.

Diameter	2"	2 1/4"	2 3/4"	3"	3 1/4"	3 1/2"	3 3/4"	4"
	2 6	2 9	3/-	3 3	3 6	3 9	4/-	4 6
								5/- each.

ADAPTERS for screwing into existing Flange or Lantern Front to allow the use of a smaller Lens, or one with a different thread.

Diameter	2"	2 1/4"	2 3/4"	3"	3 1/4"	3 1/2"	3 3/4"	4"
	3/-	3 3	3 6	3 9	4/-	4 3	4 6	4 9
								5/- each.

SIDE HANDLES, polished Brass ... **7 6** per pair.

SIGHT HOLES, 1 1/4" glass, bored for Screw Fixing ... **1 6** each.

" 1 1/2" glass, Screw Ring Fixing, as illustrated ... **2 6** "

TILTING SCREW, 6" long, with Brass Crank Handle and Plate Nut.

Quick speed Triple Thread Screw ... **3 6** each.

DOOR KNOB BRASS with Lever ... **1 6** each.

" **FIBER HEAD** ... **1 6** "

T PIECE for Rubber Tube ... **9d.** "

Y " " " ... **9d.** "

CONNECTION " " " ... **3d.** "

LIME PIN and SCREW for Jet ... **2/-** each.

" only ... **9d.** "

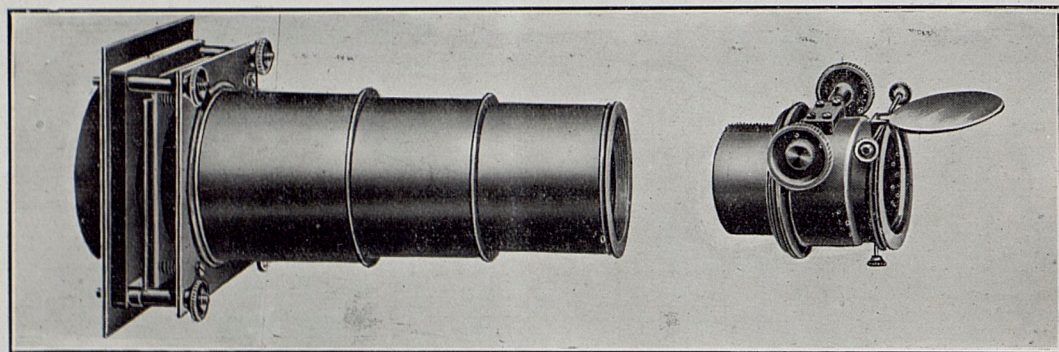
BEVEL GEAR WHEELS ... **1 6** pair

ELBOW for Screwing into Gas Fitting in place of Burner ... **6d.** each.

U PIECE ... **6d.** "

James Christie & Sons,
Sheffield.

LANTERN FITTINGS—continued.



BRASS FRONT STAGE complete, highly finished and lacquered, supplied either with screw extensions and nuts for fixing to R.I. body, or with back plate bored for screws used in fixing to wood body.

With Single Draw Tube suitable for 6" Focus Lenses	...	...	...	25/- each
With Triple " " 8" to 12" " "	...	...	...	40/- "

LENS JACKET with double-headed pinion, Tinter slot and flap.

Taking standard 2" Tube Lenses	...	...	...	...	13/6 "
" 2 3/4" " "	...	...	...	...	17/6 "

LECTURER'S CASTANETTE for signalling "Next slide please" to the operator ... 6d. "

SLIDE CARRIER made from well-seasoned mahogany standard pattern ... 1/- "

SLIDE CARRIER with lifting movement ... 1/6 "

LIME CYLINDER holding 2 Limes ... 1/- "

" " 4 " " " " " " " " 1/3 "

" " 6 " " " " " " " " 1/6 "

TRAY for Jet, with standard 1/4" pin, made of tinplate, and japanned ... 1/- "

ARNOLD BIGGIN, PRINTER, DRONFIELD.