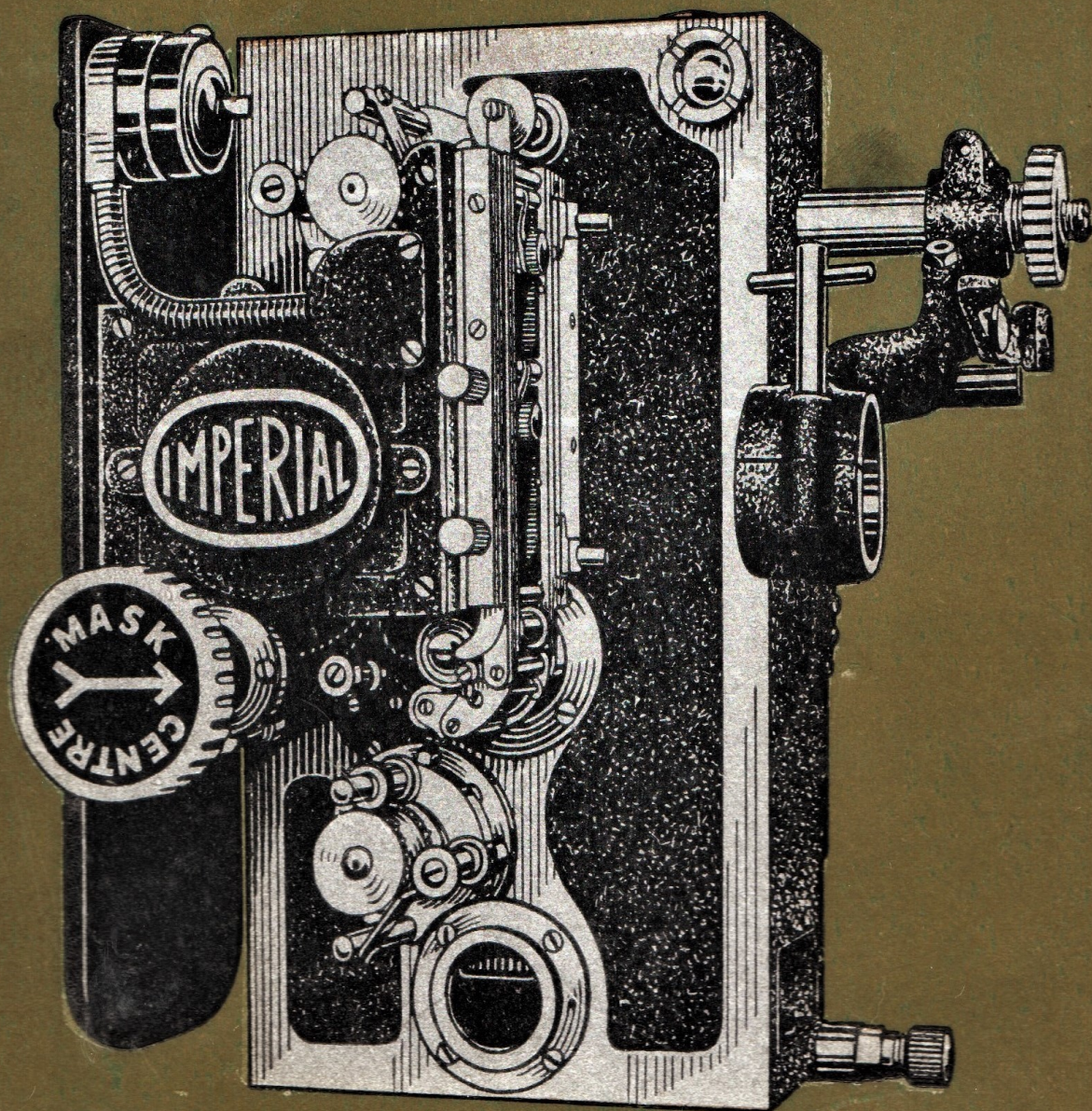




IMPERIAL III PROJECTOR



The
IMPERIAL III PROJECTOR



MADE IN LEICESTER BY THE
IMPERIAL SOUND SYSTEM



TERMS AND CONDITIONS OF SALE

NEW ACCOUNTS

Satisfactory references or cash with order.

EXPORT

20% of total payment when goods are ordered, balance C.O.D. through bankers, or on sight draft. All prices are quoted F.O.B. Packing extra.

BREAKAGES OF GOODS OR LOST IN TRANSIT

All goods are carefully packed and sent carriage paid, by goods. Goods sent passenger train (if so ordered) will be charged for. No claim can be considered by us for damage, breakage, loss or delay in transit. Goods should be signed for after examination or signed for "unexamined" so that purchaser can institute the necessary claim on carriers within three days from receipt of goods.

PACKING AND CASES

If returned in good condition, carriage paid, within 14 days from date of delivery, full allowance will be made.

TIMES OF DELIVERY

These are subject to the usual Strikes, Lockouts and Accident clauses and non-delivery of suppliers material. When ordering equipment state mains voltage, frequency and phase of the supply on which it is to operate. Also any other particulars likely to be of assistance to avoid unnecessary delay.

CONSEQUENTIAL DAMAGE

We cannot be held responsible for any consequential damage said to arise from use of any of our apparatus.

ILLUSTRATIONS

Illustrations show generally the appearance of the respective articles but must not be taken as binding as alterations and improvements are constantly being made.

GUARANTEE

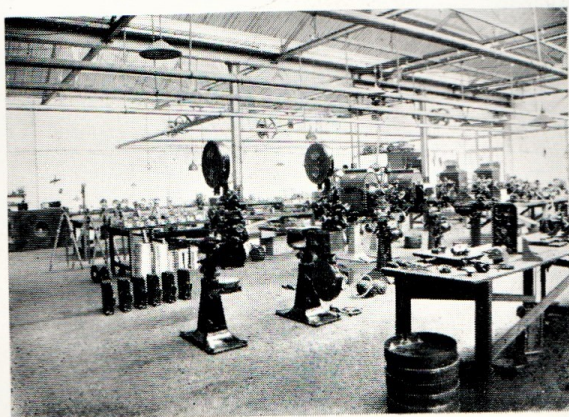
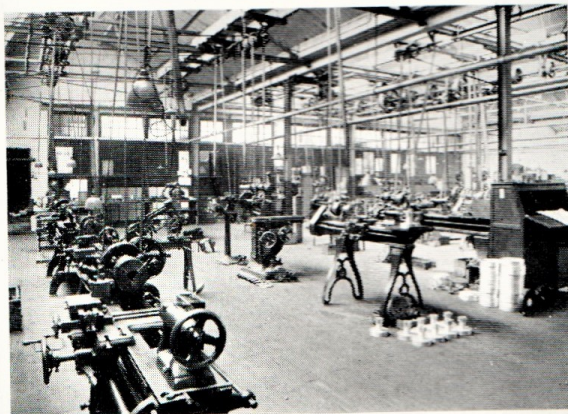
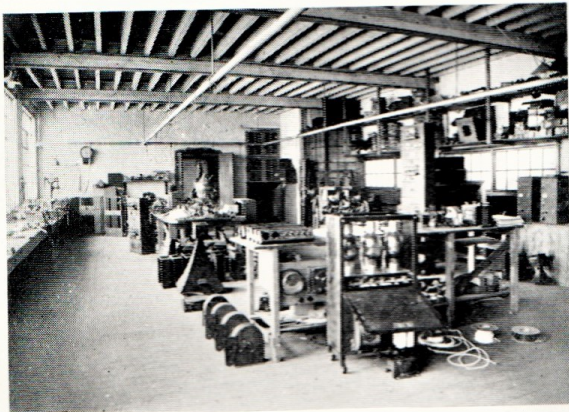
We guarantee to replace or repair, free of charge, all goods of our manufacture found to be faulty in workmanship or material, for one year from date of despatch (misuse and fair wear and tear excluded) on condition that the defective apparatus is returned to our works, carriage paid, for inspection. We do not bind ourselves to repair or replace any defective part which we consider is not warranted. We do not hold ourselves responsible for any repairs made, or attempted, without our sanction. Our decision is final.

ACCOUNTS

Accounts are payable monthly, subject to cash discount of $2\frac{1}{2}\%$ if paid during the month following delivery. A discount of $3\frac{3}{4}\%$ may be deducted when sending cash with order.

QUOTATIONS

Estimates and specifications are all issued with the understanding that any Errors and Omissions are Excepted.



IMPERIAL SOUND SYSTEM
ST. BARNABAS ROAD, LEICESTER
ENGLAND

TELEPHONE + LEICESTER 27396



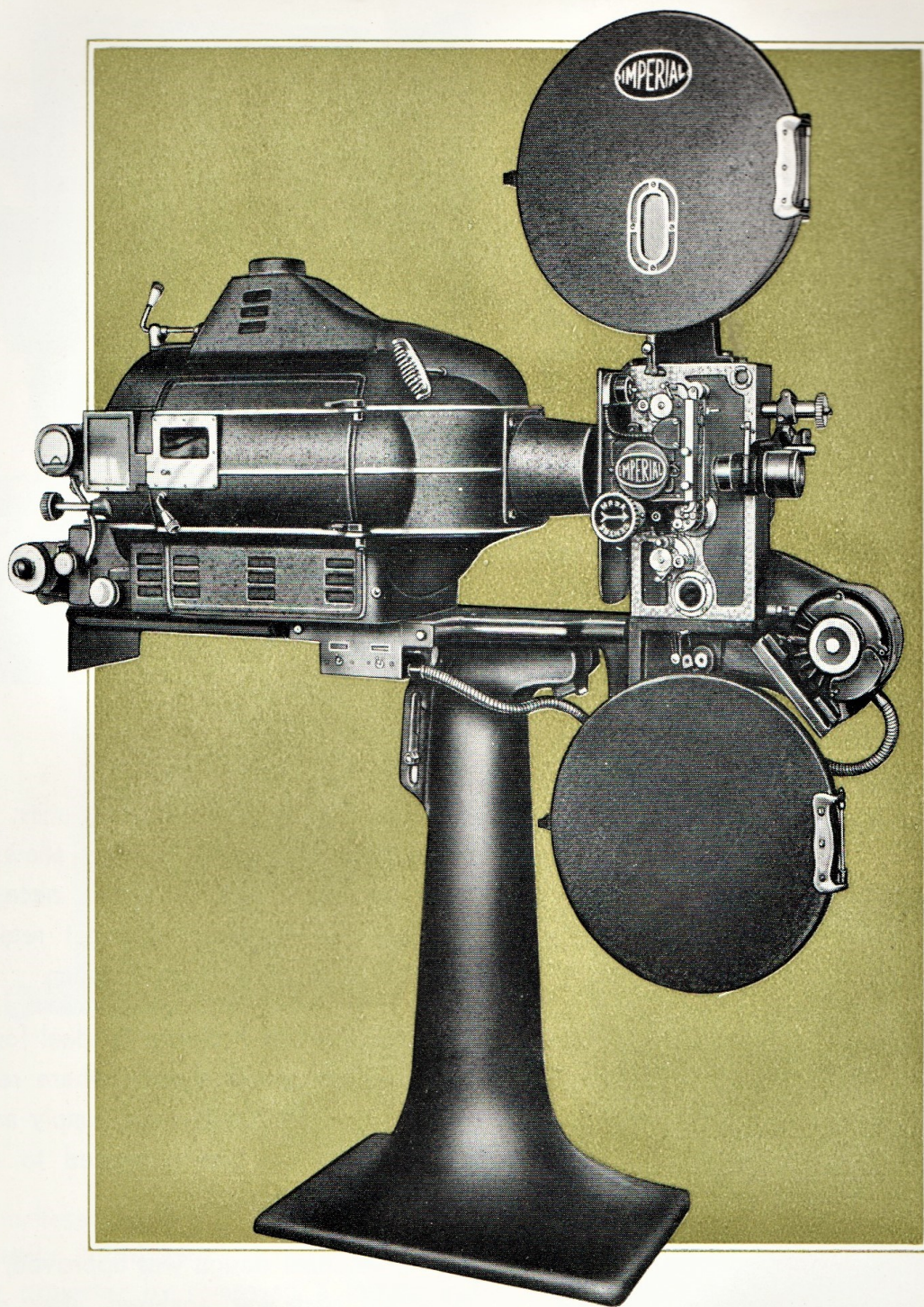
Illustrations show view of the Works,
Electrical Department, Machine Shop,
Assembling and Fitting Shop.

Preface

The IMPERIAL III Projector is the result of years of experience in manufacturing various types of projectors, high-class talking picture equipment, numerous machines for special purposes and all kinds of replacement parts. Experience has also been gained in adapting our sound equipment to various types of projectors and noting faults in projector design over long running periods. The design of the IMPERIAL III follows modern practice, but it is in the details that the experienced will note and appreciate the numerous improvements incorporated.

A modern projector is more than a machine, it is also a scientific instrument which magnifies any errors in construction and must therefore be manufactured to very close limits of accuracy. It is with every confidence that we refer you to the following pages which have been well illustrated, with details to give a general idea of the construction both external and internal.

May we draw your attention to the pocket on the inside of the back cover of this catalogue. This is for your convenience to enable you to retain any future literature appertaining to the IMPERIAL III Projector.



IMPERIAL III PROJECTOR

Complete with IMPERIAL 14" Mirror High Intensity Arc Lamphouse
on IMPERIAL Pedestal Stand



IMPERIAL III PROJECTOR

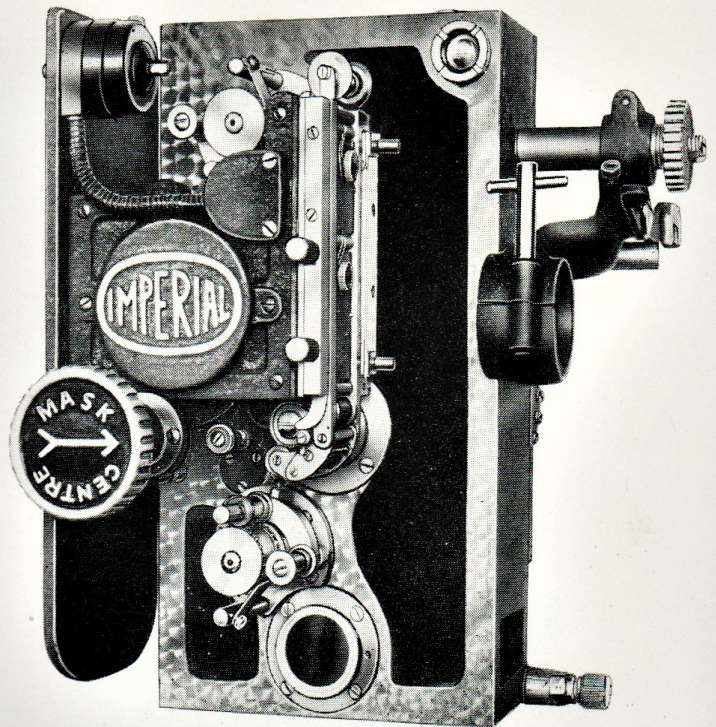
A modern projector should possess the following points: rock steady projection, maximum light, long life requiring minimum of attention, simplicity and ease in fitting replacement parts.

The IMPERIAL III Projector justly claims to combine in design and manufacture all these points in addition to numerous improvements not found on other makes of projectors.

HOUSING

The whole of the gearing, etc., is enclosed in a strong cast-iron box to which is fitted, by screws, an oil-tight back plate. To this is fitted a screwed-on large dome cover which is easily removed for giving access to the maltese cross box, gearing, etc.

The maltese cross box is easily withdrawn from projector by removing a locking nut.



ASSEMBLY

Assembled from self-contained units, held in position by external screws, allows for quick and easy servicing when necessary. Interference with other units not requiring attention is reduced to the minimum.

The IMPERIAL III Projector is ideal for export, also for remote districts where repairs can be carried out with ease, simply and in a fraction of the time compared to other types of projectors.

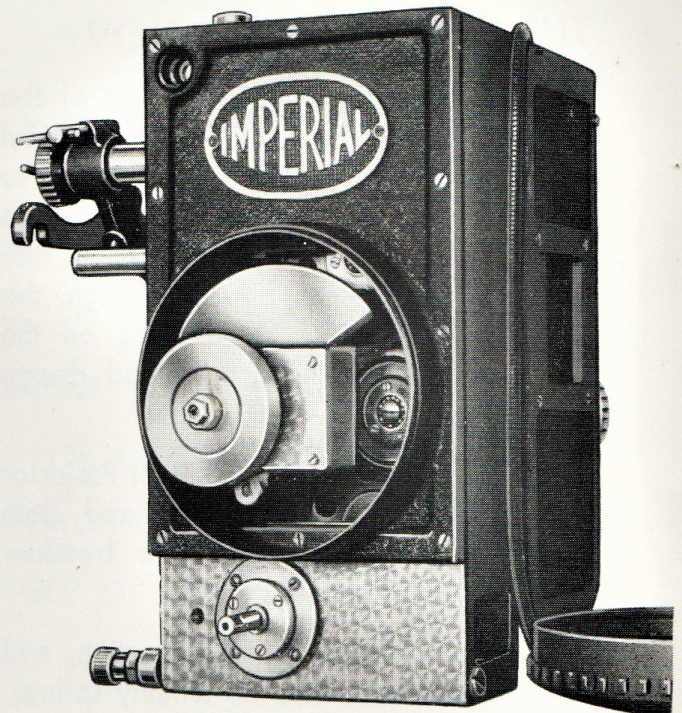
Before the final design was approved, each individual part was analysed after manufacture, assembled in the complete machine and given a thorough test. The result is that the IMPERIAL III Projector is undoubtedly the best machine procurable, irrespective of price.

IMPERIAL III ALLOWS 20% MORE LIGHT TO REACH THE SCREEN



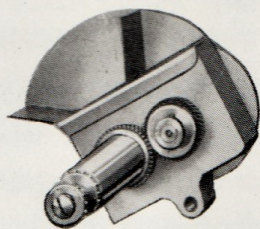
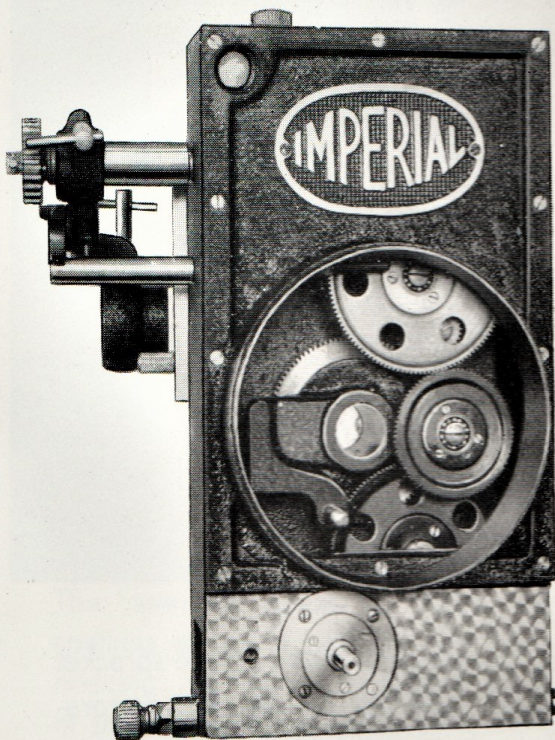
GEARS

Gears that work together are manufactured from high grade steel, hardened, or phosphor bronze of best quality, running in mesh with bakalized cloth gears which give long life with silent running under all modern conditions.



SPINDLES

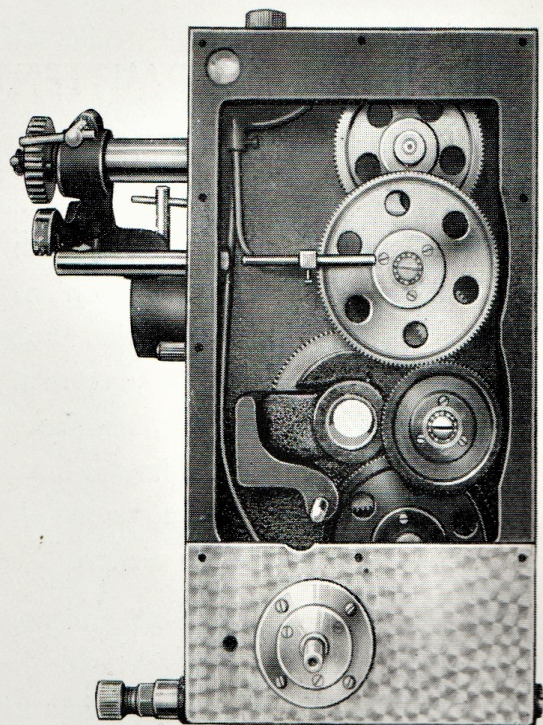
All spindles are manufactured from cast steel and where advantageous, revolve on first class ball races.



The maltese cross box is easily withdrawn from projector by removing a locking nut.

POWER

The power supplied by a small motor is sufficient to drive the projector. Saving in running costs over a period will be quite considerable.



APPROX. 40% LESS GATE HEAT—RISK OF FIRE GREATLY REDUCED



THE GATE

The gate forms an important part of the projector. It was designed only after careful study of the requirements necessary to prevent damage to the film, easy passage to bad joints, prevention of jump to the picture when a joint passes through the gate, and prevention of scratches on the film which are usually due to bad design of gate skids.

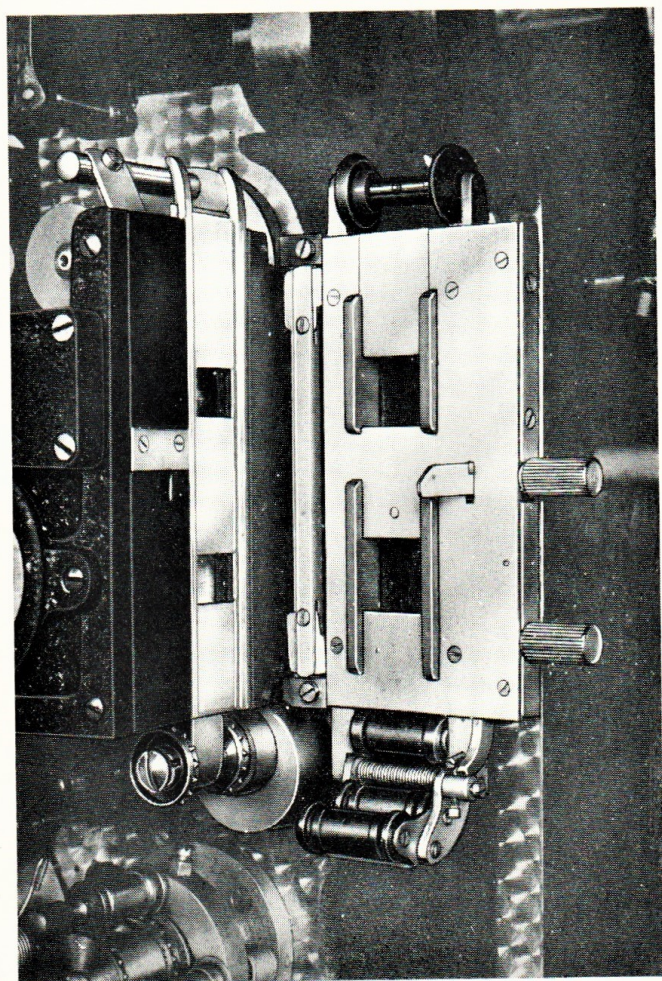
The gate skids on the IMPERIAL III Projector are manufactured from a bakalized cloth material giving a long life with freedom from wearing sharp edges.

Simple in design, long in construction, and pressure applied evenly by lengthy springs, give resilience in operation. Two pairs of skids independent of each other with spring pressure applied in the centre of each, result in the film always lying flat in the gate when running, thus avoiding variation in focus to the projected picture.

GUIDE AND INTERMITTENT ROLLERS

Guide rollers are manufactured in two halves from cast steel, then hardened. Each half roller revolves independently on a true running spindle held in position between hardened points, which are adjustable. The whole revolves very freely and independently, this prevents undercutting of the guide rollers which is usually the cause of side movement to the projected picture.

The double intermittent rollers are mounted on a rocker arm bracket which holds the film in constant engagement to the intermittent



sprocket. This prevents stretch to the sprocket holes, lessens fire risk due to torn perforations and eliminates jump to the picture when a joint passes.

To prevent damage to the intermittent sprocket teeth when the gate is opened or closed, it is arranged that the gate catch depresses the intermittent roller bracket away from the intermittent sprocket. This action is positive and mishap through accident or carelessness cannot occur.

Gate catch and catch plate are manufactured from steel which is then hardened to give the utmost resistance to wear.



GATE ACTION

The complete gate can be easily removed from the projector if required by simply lifting the two catches which hold the gate securely into position. Another good point is that the gate opens at right angles thus allowing ample room for threading the film and for cleaning the entire gate parts.

The gate is manufactured throughout from steel parts, plated. All replacement parts are easily removable and fitted. The gate is streamlined in appearance and protruding parts avoided. All necessary adjustments are provided and easily accessible. All rollers are manufactured from cast steel, which are hardened and ground to revolve true. The gate skid pressure springs are constructed to give resilience in action, it is impossible to apply pressure sufficient to damage the film or cause pulled sprocket holes.

APERTURE PLATE

The aperture plate is extra long and contains an additional aperture for ease in masking. A light is provided at the back of this aperture by means of a low wattage lamp run direct off the mains supply. The correct register is in relation to the picture gate and makes for ease and correct masking.

An air space is provided between the aperture plate and the gate casting to reduce direct gate heat.

The aperture plate is provided with protruding edges which slide into grooves provided in the gate block casting and can be easily removed for cleaning or replacement. No screws are necessary to hold the plate into position.

POINTS TO NOTE:

LENGTH OF APERTURE PLATE AND SKIDS.

NON-METALIC AND INDEPENDENT ACTION SKIDS.

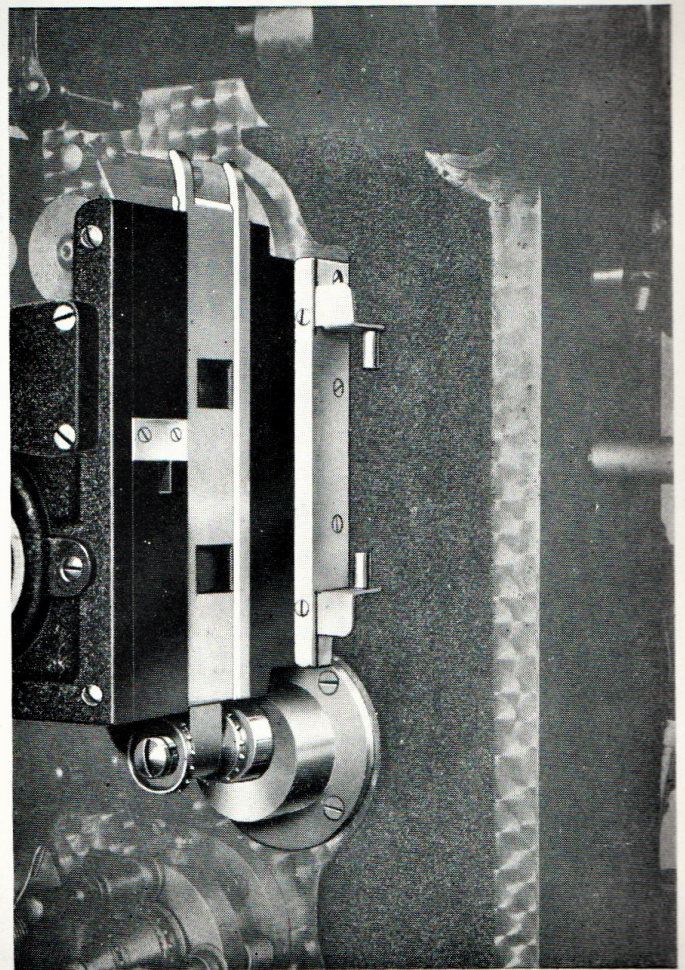
AUTOMATIC GATE CATCH.

EXTRA MASKING APERTURE.

INTERMITTENT ROCKING ROLLERS.

REMOVABLE GATE.

FULL OPENING OF GATE



EASE IN MAKING ADJUSTMENTS AND FITTING REPLACEMENT PARTS



DRUM SHUTTER

The drum shutter is solidly constructed to resist the tremendous heat from the arc, especially when high intensity arcs using high amperage are in use.

Enclosed inside the drum shutter is the automatic fire shutter which operates by centrifugal force against spring tension and can only open when the projector attains full speed, or, if the projector is slowed down will close thereby preventing fire occurring in the gate through this cause.

To prevent the automatic shutter springs losing tension through intense heat from the arc, these are mounted at the back and suspended away from the drum to prevent direct contact, and, revolving in a current of air, spring tension is not affected.

Timing or removing the drum from the projector is easily carried out. The drum is held secure to the shutter spindle by clamping disc which is held in position by three screws, these only need to be loosened to allow the drum to be turned to any position.

ADVANTAGES:

APPROXIMATELY 40% LESS GATE HEAT.

GREATLY REDUCED FIRE RISKS.

PREVENTS FILM SOFTENING WHICH CAUSES PULLED AND RAISED SPROCKET HOLES.

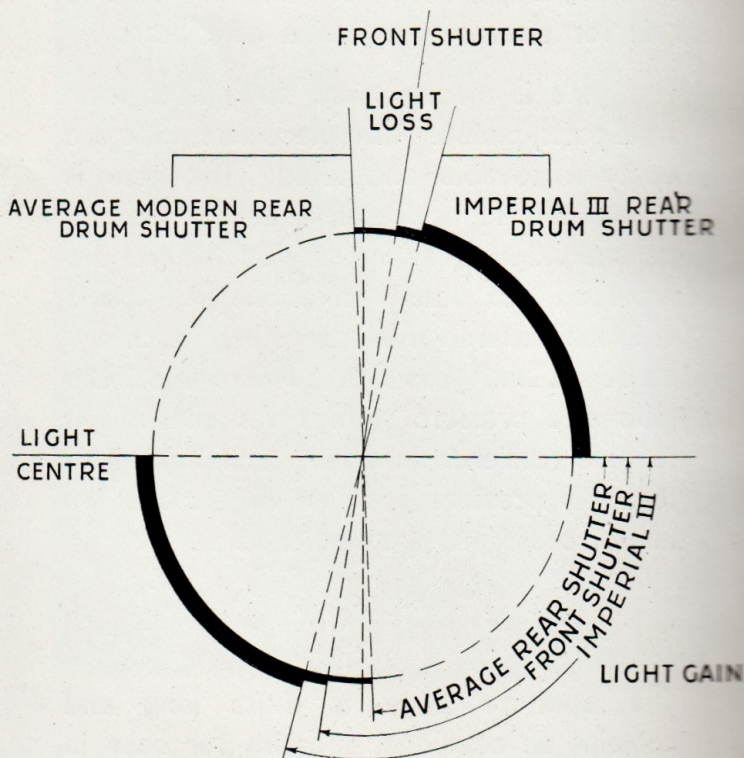
LESS LOAD ON GEARING LONGER LIFE.

BETTER PROJECTED PICTURE.

PREVENTION OF ACCIDENTS LIABLE WITH FRONT SHUTTER PROJECTORS.

SHUTTER PHASING

Shutter phasing on the IMPERIAL III Projector allows more light to reach the screen with the equivalent light than any other projector we know. Comparable light values can be ascertained by noting drawing.



Average front shutter projector taken as standard with the same dimension of maltese cross movement, it will be noted that the IMPERIAL III is approximately 12½% more efficient; also as the light is cut off at the top and bottom of the picture at the same time, this doubles the speed of closing and opening of light on the screen. In addition, direct gate heat is reduced by approximately 40%, the picture is sharper in focus, the blacks being better preserved, and detail becomes more pronounced which is due to the light being cut before the picture frame and not in front of the lense.

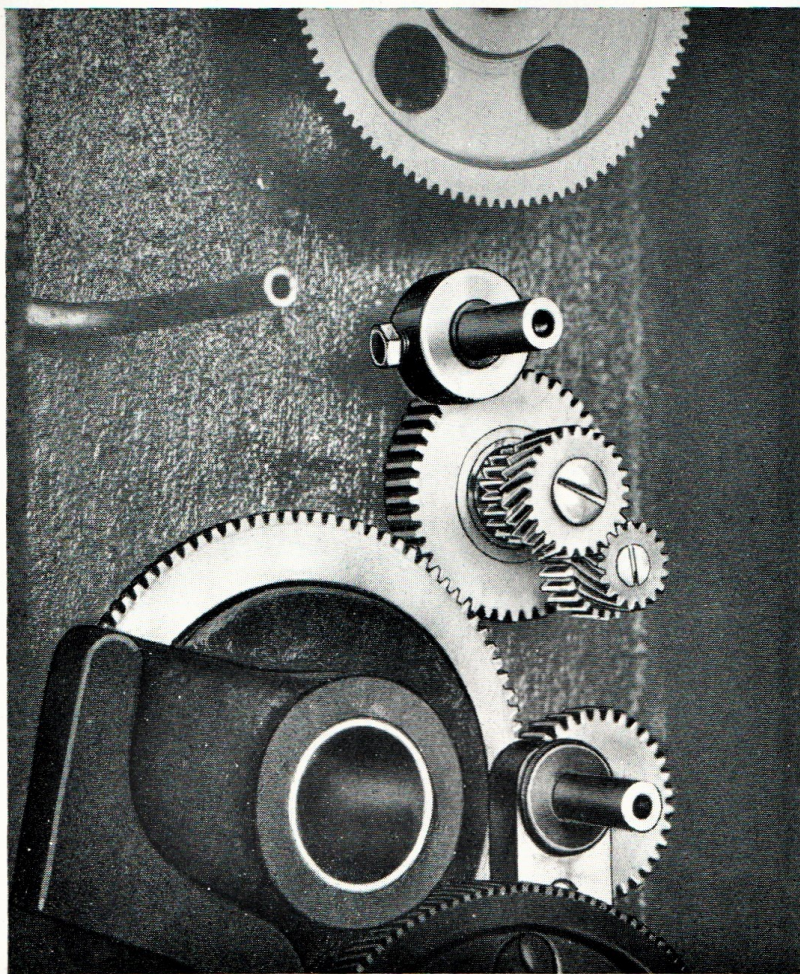
IMPERIAL III ALLOWS 20% MORE LIGHT TO REACH THE SCREEN



POSITIVE IN ACTION

Other makes and types that employ a rear drum shutter invariably use other arrangements for shutter phasing, usually these are

reach the screen than any other type of rear drum shutter projector we know. This fact alone warrants serious consideration before finally deciding on a new machine.



not so positive in action especially when the parts become worn. To make up for this deficiency and prevention of the possibility of a ghost effect, the black-out portion of the drum shutter must be increased correspondingly, resulting in less light reaching the screen.

The IMPERIAL III, due to a special arrangement of gears, etc., does not suffer from this defect and allows 20% more light to

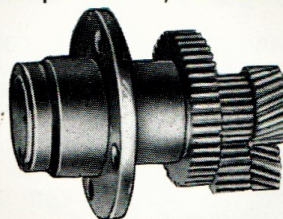
IMPERIAL III PROJECTOR

allows 20% more light to reach the screen than any other drum shutter projector we know.

RACKING

Racking is controlled by a well-proportioned knob with external adjustable grip tension. This turns the maltese cross box unit inside the intermittent bearing sleeve, at the same time operates a gear revolving round the drum shutter bearing.

On this gear is mounted two odd-sized gears fixed together, these allow the drum shutter to be advanced or retarded thereby automatically keeping in correct phase with the rotation of the intermittent sprocket. Simple, dependable, efficient, and will not



alter materially at any time due to wear or other causes. Patent applied for. 571269

APPROX. 40% LESS GATE HEAT - RISK OF FIRE GREATLY REDUCED



MALTESE CROSS BOX

The maltese cross box encloses the complete intermittent movement, can be removed from the projector by unscrewing the large dome cover at the back of the machine, then unscrewing a nut which holds the cross box to the rotating arm.

CONSTRUCTION

The construction of the maltese cross movement is highly specialised work, as this, to give a rock-steady picture and silent running, must be most accurately manufactured.

High class workmanship and best quality materials only are allowed in its construction.

The maltese cross is manufactured from chrome vanadium steel, accurately cut and ground to exceedingly fine limits of accuracy.

The intermittent spindle is made from cast steel, turned dead true and to size. This spindle revolves inside a slightly eccentric cast iron bearing for accurate adjustment to be made in relation to the striker cam.

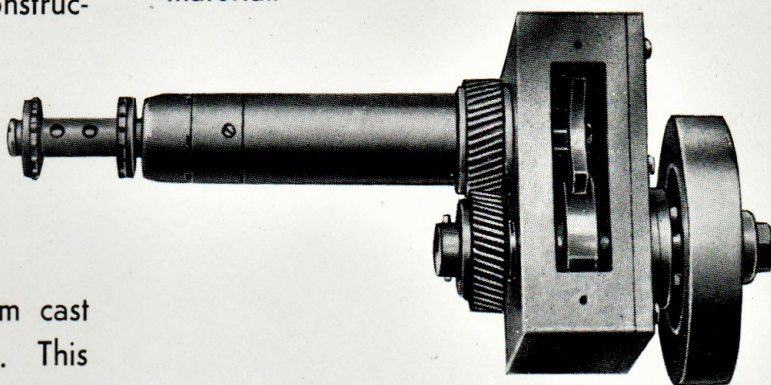
The striker cam shaft is made from cast steel and revolves inside two cast iron bush bearings mounted on the cross box. Mounted on this shaft is the striker cam which is manufactured out of a special cam steel which is then hardened and after fitting to the shaft is ground true and to size.

Mounted on each side of the cam are two stout steel plates which support a slightly eccentric spindle on which revolves freely

the striker roller. The roller is manufactured from a special roller bearing steel, hardened and ground to close limits to fit without undue play the maltese cross slots.

A cover is fitted over the cross box having a wire gauze covered inlet to filter the oil before entering, thus keeping the cross box absolutely clean and materially prolonging the life of the working parts, bearings, etc.

The sleeve gear is manufactured from a special steel and is hardened to give long life. Running in mesh with this gear is the striker shaft gear which is manufactured from a bakalized cloth silent running gear material.



SERVICE:

MALTESE CROSS BOX EASILY REMOVED.

EASE IN FITTING REPLACEMENT PARTS.

EASE IN MAKING ADJUSTMENTS, ETC.

STAND-BY CROSS BOX INTERCHANGE.

RETURNABLE TO WORKS FOR OVERALL.

CROSS BOX LOANED WHILE REPAIRS ARE CARRIED OUT.

FIRST CLASS MATERIALS - ROCK-STEADY PICTURE - SILENT RUNNING



LUBRICATION

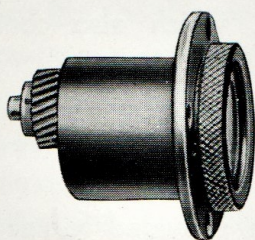
Oil circulation is by means of a pump situated at the base and in front of the projector. The pump also contains the oil level indicator and removable oil filter. The pump action consists of two close fitting cast steel gears revolving together in an enclosed space.

Before oil can enter between the gears it must first pass through the wire gauze filter thus preventing any foreign matter locking the gears which may result in damage and a breakdown entailing considerable expense and inconvenience.

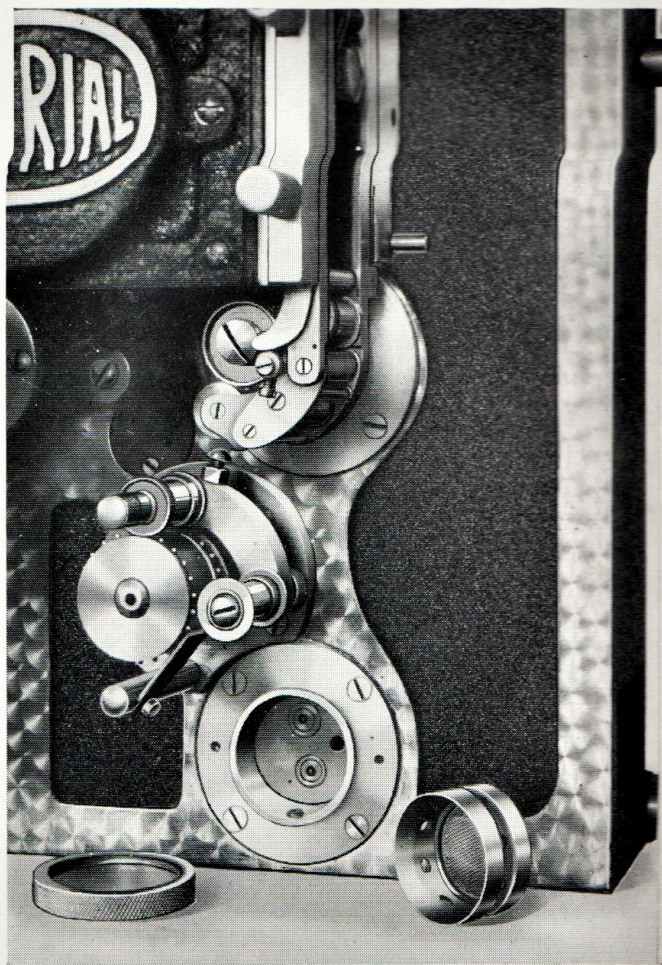
The oil filter is easy to remove for cleaning purposes, which must be so, otherwise a filter would be a constant source of trouble. By unscrewing the outer ring of the oil level compartment the filter can be withdrawn. The pump is driven direct off the main driving gear thereby reducing load and wear on other gears.

OIL PUMP

The oil pump is a complete and self-contained unit easily removed from the projector

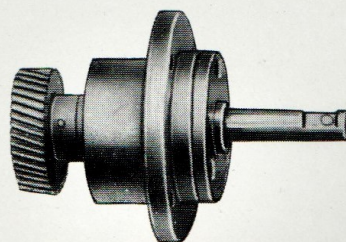


without interfering with or removing any other parts. A visual oil chamber is provided at the top of the projector.



MAIN DRIVE

The main drive is a self-contained unit removable from the projector without interfering with any other parts. The spindle is manufactured from cast steel turned true to size, which revolves at 720 revolutions per minute on first class ball races of ample dimensions.

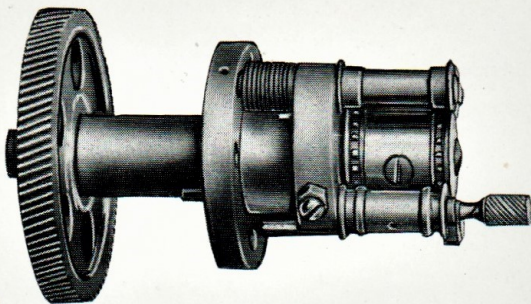


EASE IN MAKING ADJUSTMENTS AND FITTING REPLACEMENT PARTS



SPROCKETS

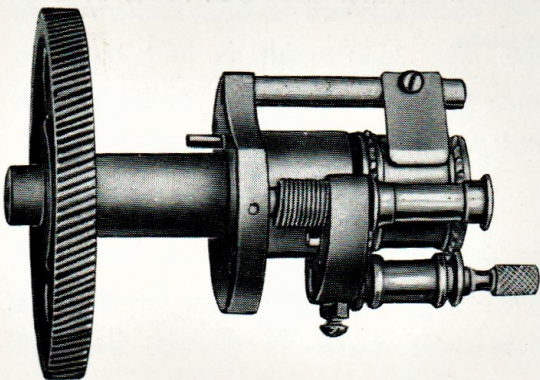
Sprockets are accurately manufactured from a special steel most suitable for film work. The teeth are accurately spaced and cut to a correct shape to give a rolling motion when engaging with the film perforations. The teeth will wear evenly throughout the life of the sprocket and will not become hooked which is usually the cause of damage to the sprocket holes, resulting in an unsteady picture and may possibly be the reason of a fire occurring.



TOP & BOTTOM SPROCKETS

Top and bottom sprockets are self-contained units consisting of a cast steel shaft which revolves on first class ball races, complete with sprocket, gear, roller arm and stripper plate.

Can be easily dismantled from the projector by removing the internal gear and the four external screws.



LENSE MOUNT

The lense mount is of rigid construction and is made from phosphor bronze. A coarse and fine adjustment for focussing is provided which can be securely locked into position when finally set by a small lever. A latch lever is also provided which holds the lense above the gate for ease in threading the film through the gate, or when cleaning the gate, etc.

VISUAL OIL CHAMBER

The oil chamber, placed at the top of the projector, shows you at a glance if the oil circulation is working satisfactory, if not, it is usually due to the oil filter requiring cleaning or additional oil is required. The oil chamber is sunk into the main projector casting which forms a protection against possible damage. Absence of unsightly protruding parts gives facilities for easy cleaning and also adds to the appearance of the projector.

A window is provided at the front and back to give a clear view of the oil circulation.

Oil level in the projector is shown by the indicating window situated at the base of the machine, which also contains the oil filter.

OIL TRAPS

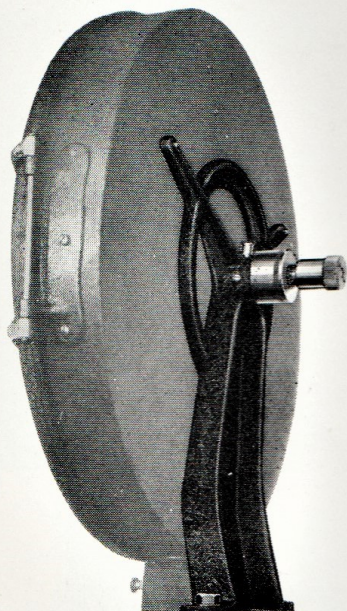
Oil traps are provided for all the spindles revolving externally thus preventing oil leakage. Freedom from surplus oil keeps the projector clean apart from oil wastage which is expensive.



SPOOL BOXES

The spool boxes are made from stout gauge sheet iron, are 18 inches in diameter, have robust door hinges and a spring-operated door catch.

The complete spool boxes and arms are finished with a black rivelling lacquer of great durability, other parts are plated to prevent rust. The centre spindles are manufactured from cast steel and revolve on phosphor bronze bearings.



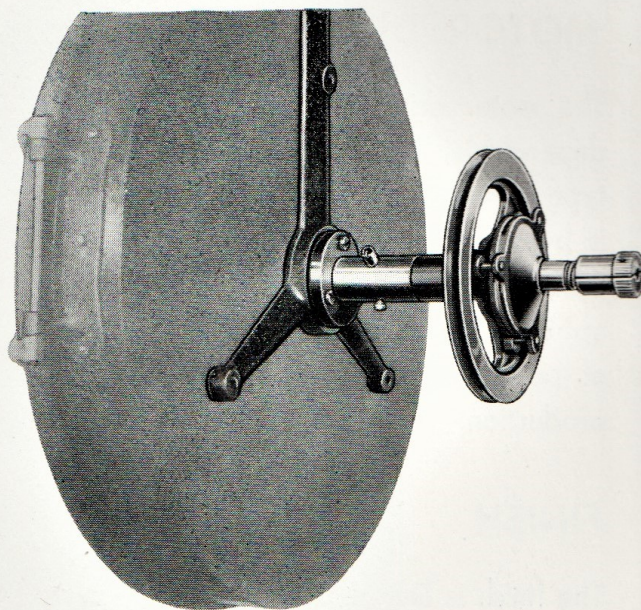
TOP SPOOL BOX

The top spool box has an adjustable tension clutch to prevent the spool over-riding when starting or stopping the projector.

A mica window is provided in the door and box which gives a clear view to note the approximate amount of film remaining on the spool to determine the finishing time.

BOTTOM SPOOL BOX

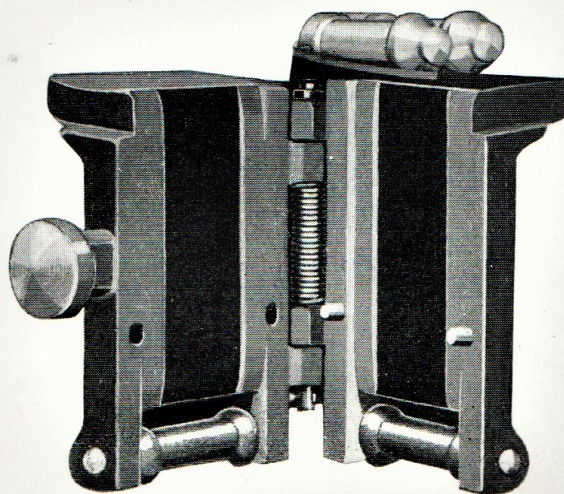
The bottom spool box drive is of robust construction and the clutch driving tension



is adjustable to allow an even take-up throughout the whole reel of film. The drive is by means of a round leather belt from a pulley mounted on the main drive shaft of the projector.

FIRE TRAPS

Fire traps are fitted to each spool box. These are made in two halves and always remain closed by spring action. Two independent pairs of rollers are fitted for relieving strain and preventing damage to the film.



APPROX. 40% LESS GATE HEAT — RISK OF FIRE GREATLY REDUCED

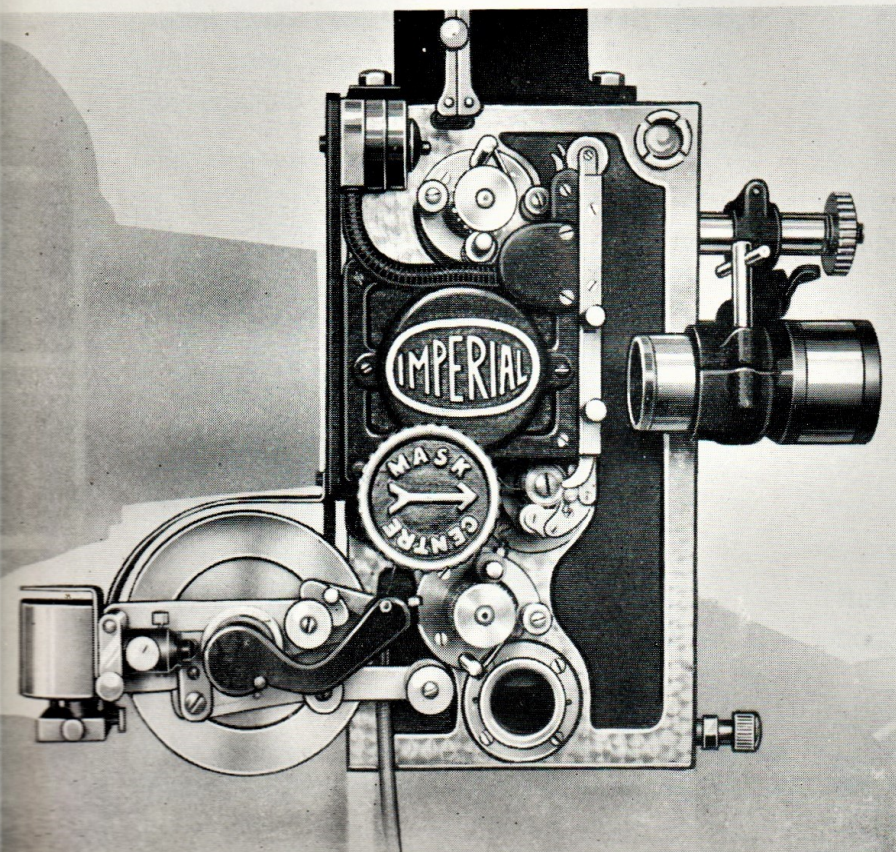
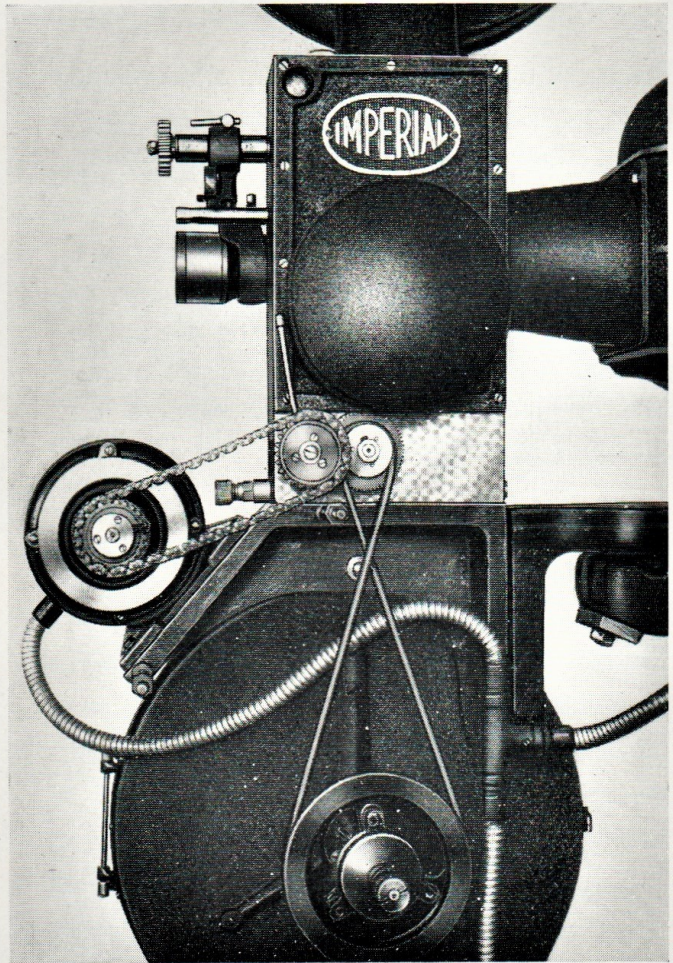


MOTOR DRIVE

The motor drive is simple, inexpensive, dependable, easily fitted and a special type of motor is not required. The drive is by silent running inverted tooth chain. Unlike belt drive, tension need not be applied to prevent slip which is a waste of power and fatal for good sound reproduction.

FINISH

The finish is first class, all stationary parts are plated to prevent rust. The main casting is machined all over, and, together with other parts—spool boxes, arms, etc.—are enamelled with a black rivelling lacquer of great durability. The projector has a neat and most attractive appearance.

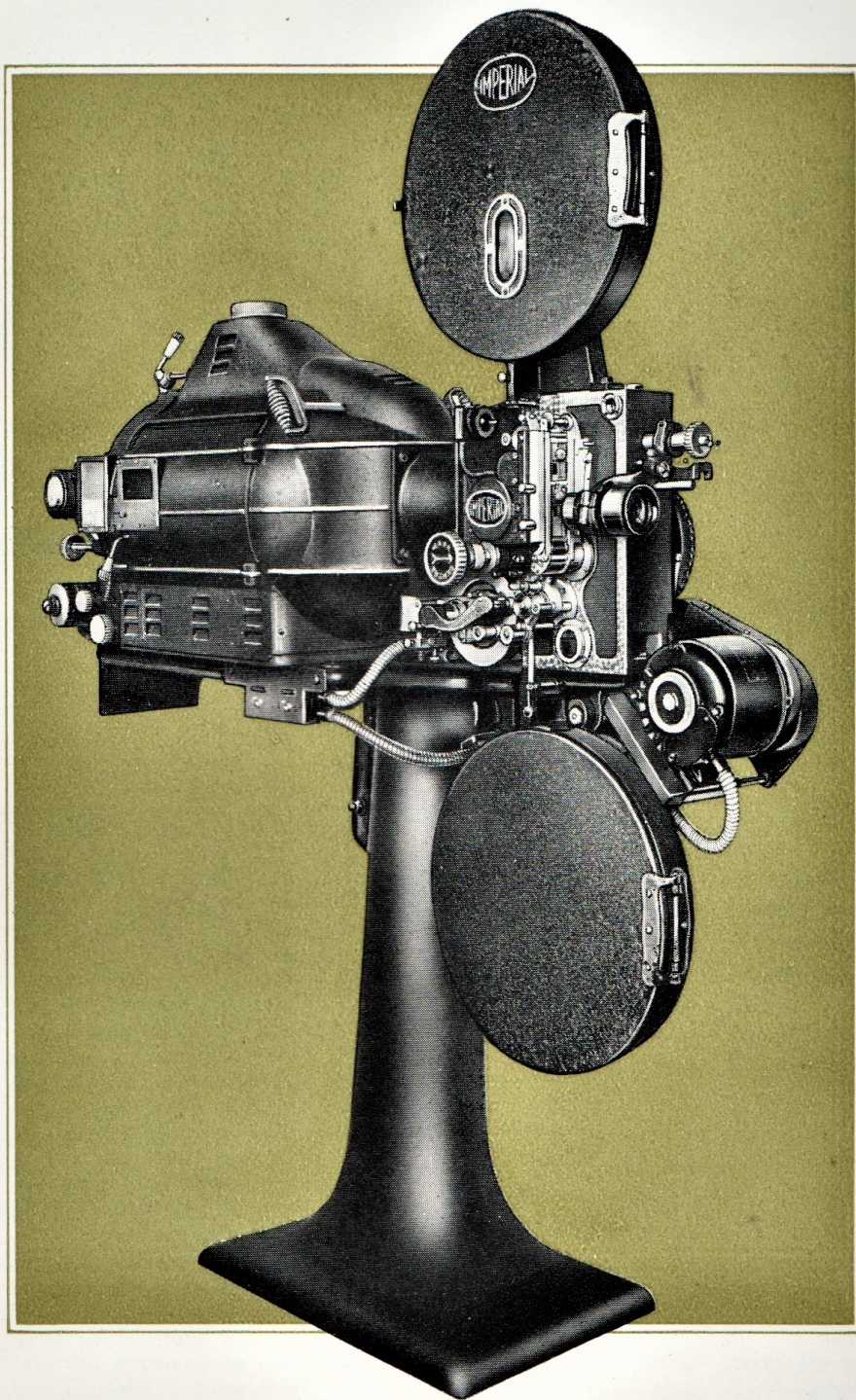


SOUNDHEADS

Please ask for further details of IMPERIAL SOUND SYSTEM which incorporates the latest type of Rotary Gate Soundhead Type S2 and Rotary Gate Driven Soundhead Type DS3—the standard designs of the future.

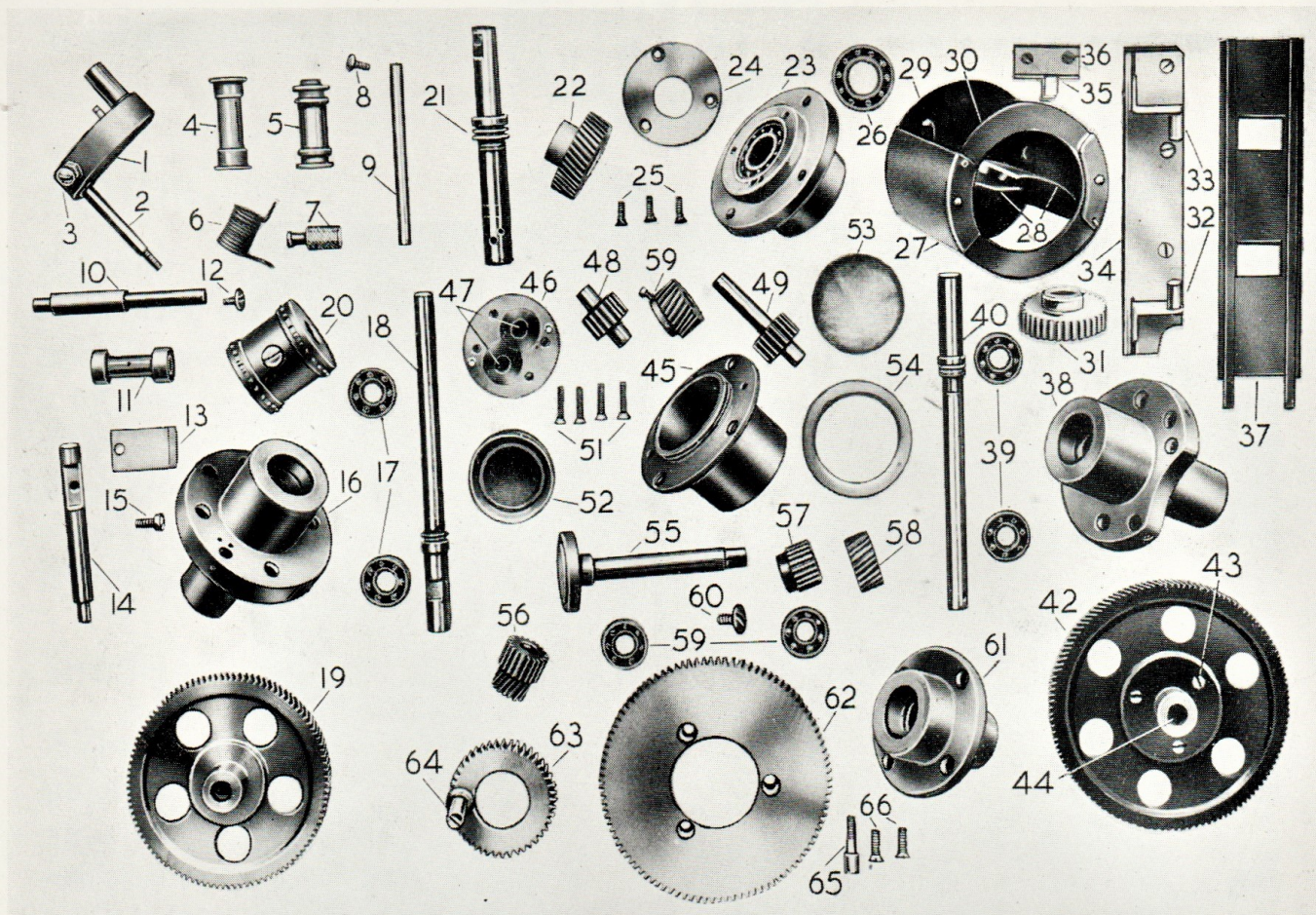
Imperial Sound System is adaptable to any make of projector.

IMPERIAL III PROJECTOR with
IMPERIAL S2 type SOUNDHEAD



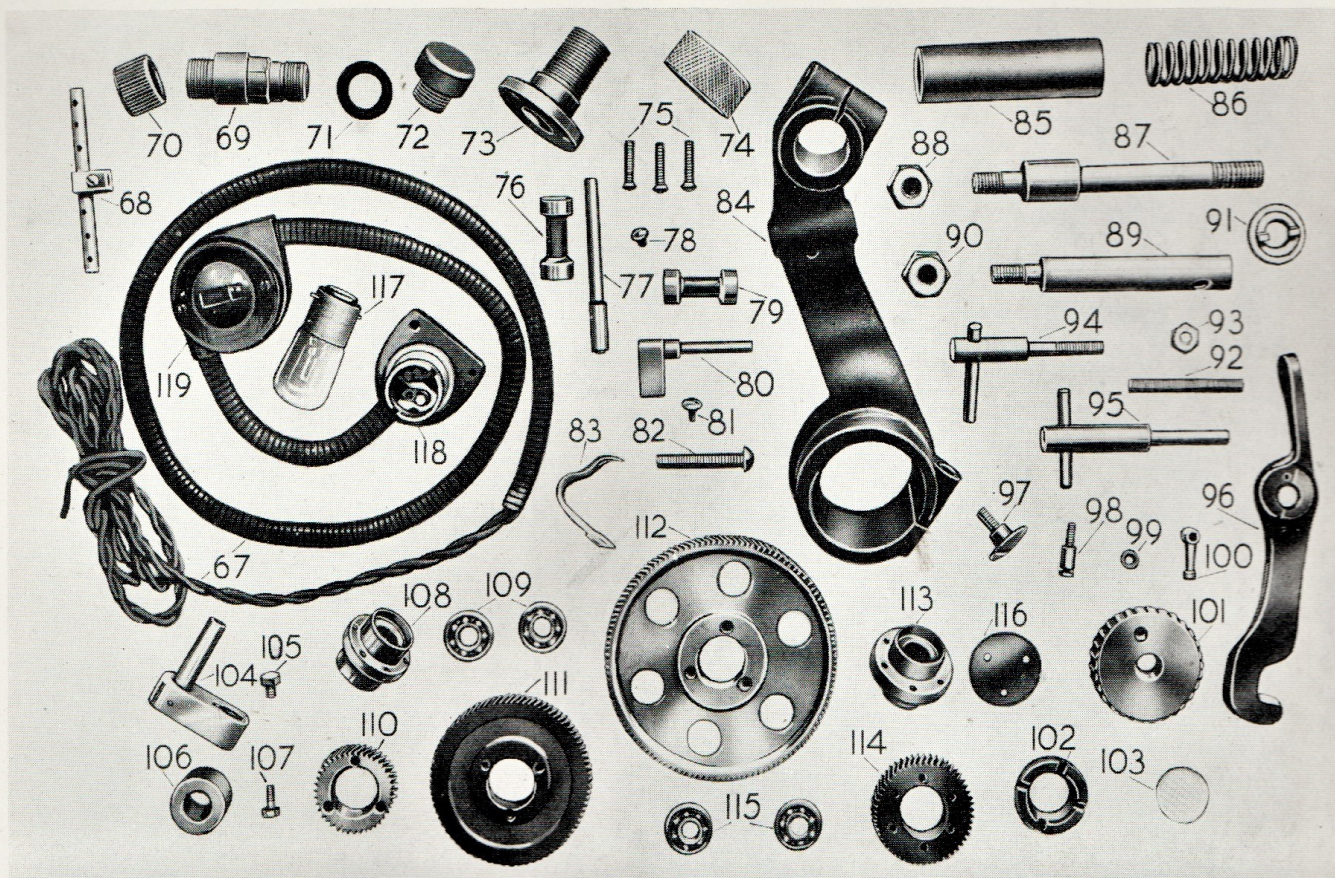
IMPERIAL III PROJECTOR

Shown with IMPERIAL High Intensity Arc and IMPERIAL S2 type
Soundhead mounted on pedestal stand



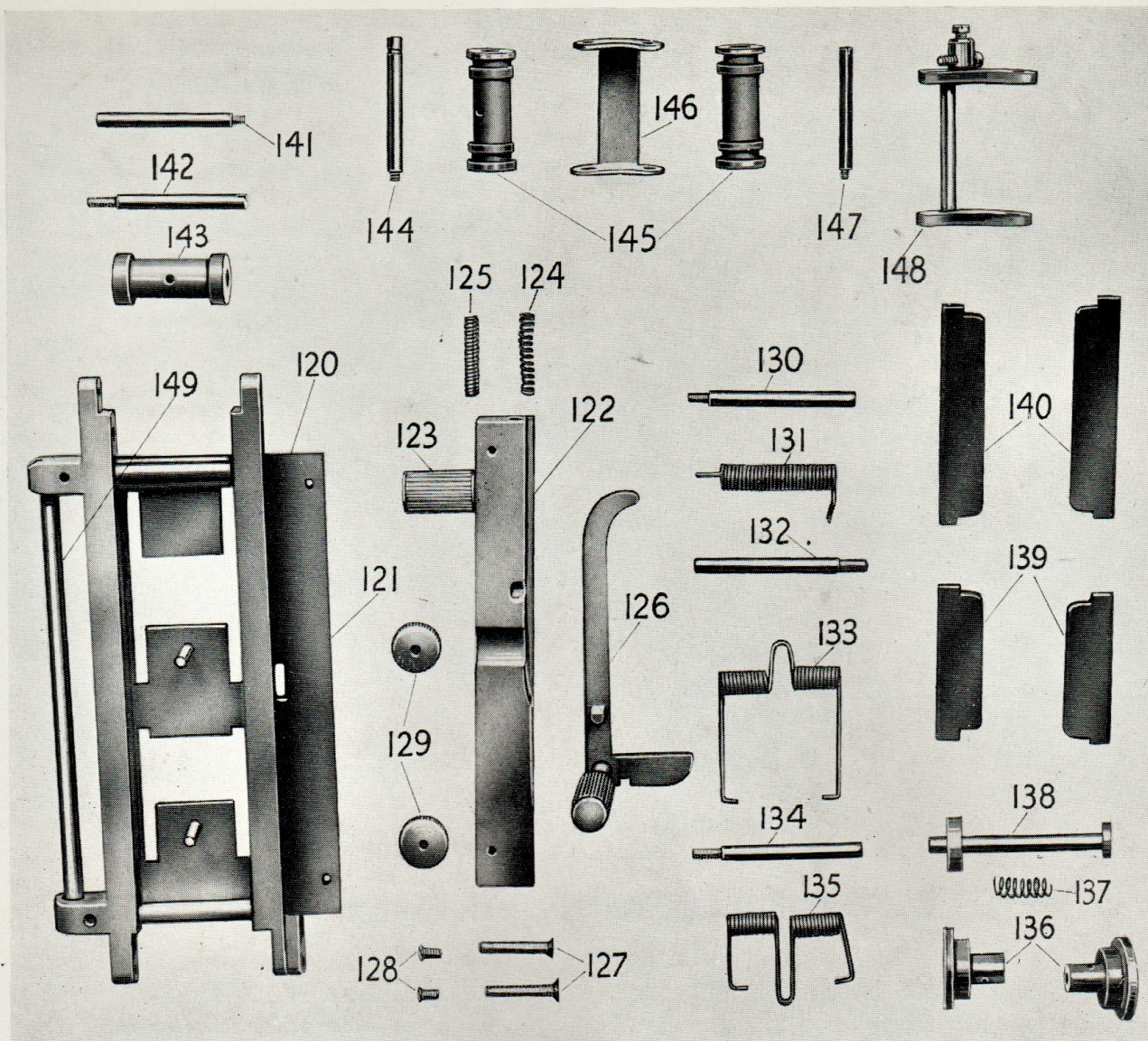
REPLACEMENT PARTS FOR IMPERIAL III PROJECTOR

1. Sprocket roller bracket.
2. Sprocket roller spindle.
3. Sprocket roller adjusting screw.
4. Bracket idler roller.
5. Sprocket grooved roller.
6. Bracket spring.
7. Knob.
8. Bracket idler retaining screw.
9. Bracket idler roller stud.
10. Idler stud.
11. Idler roller.
12. Idler roller retaining screw.
13. Stripper plate.
14. Stripper fixing stud.
15. Stripper fixing screw.
16. Top sprocket housing.
17. Top sprocket housing ball races.
18. Top sprocket spindle.
19. Top sprocket gear.
20. Top and bottom sprocket.
21. Main drive spindle.
22. Main drive gear.
23. Main drive housing.
24. Main drive oil retaining plate.
25. Main drive oil retaining plate fixing screws.
26. Main drive ball races.
27. Drum shutter.
28. Drum shutter automatic shutter blades.
29. Drum shutter automatic shutter blade springs.
30. Drum shutter automatic shutter blade spring studs.
31. Rack handle gear.
32. Gate locking lever (bottom).
33. Gate locking lever (top).
34. Gate locking lever plate.
35. Gate catch plate.
36. Gate catch plate fixing screws.
37. Gate aperture plate.
38. Bottom sprocket housing.
39. Bottom sprocket housing ball races.
40. Bottom sprocket spindle.
41. Bottom sprocket turning handle (not shown).
42. Bottom sprocket driving gear.
43. Bottom sprocket driving gear fixing screws.
44. Bottom sprocket driving gear boss.
45. Pump housing.
46. Pump housing end plate.
47. Pump housing end plate bearing bushes.
48. Pump gear (internal).
49. Pump gear (internal) long spindle.
50. Rack handle (not shown).
51. Pump end plate fixing screws.
52. Pump oil filter.
53. Pump window.
54. Pump window retaining ring.
55. Shutter spindle.
56. Shutter combined odd gears.
57. Shutter spindle fixed gear.
58. Shutter spindle free gear.
59. Shutter spindle ball races.
60. Shutter spindle end screw.
61. Shutter spindle housing.
62. Racking gear (large) fixed to rotor arm.
63. Racking gear (small) shutter housing.
64. Stud for combined odd gears.
65. Stop pin (racking).
66. Large rack gear fixing screws.



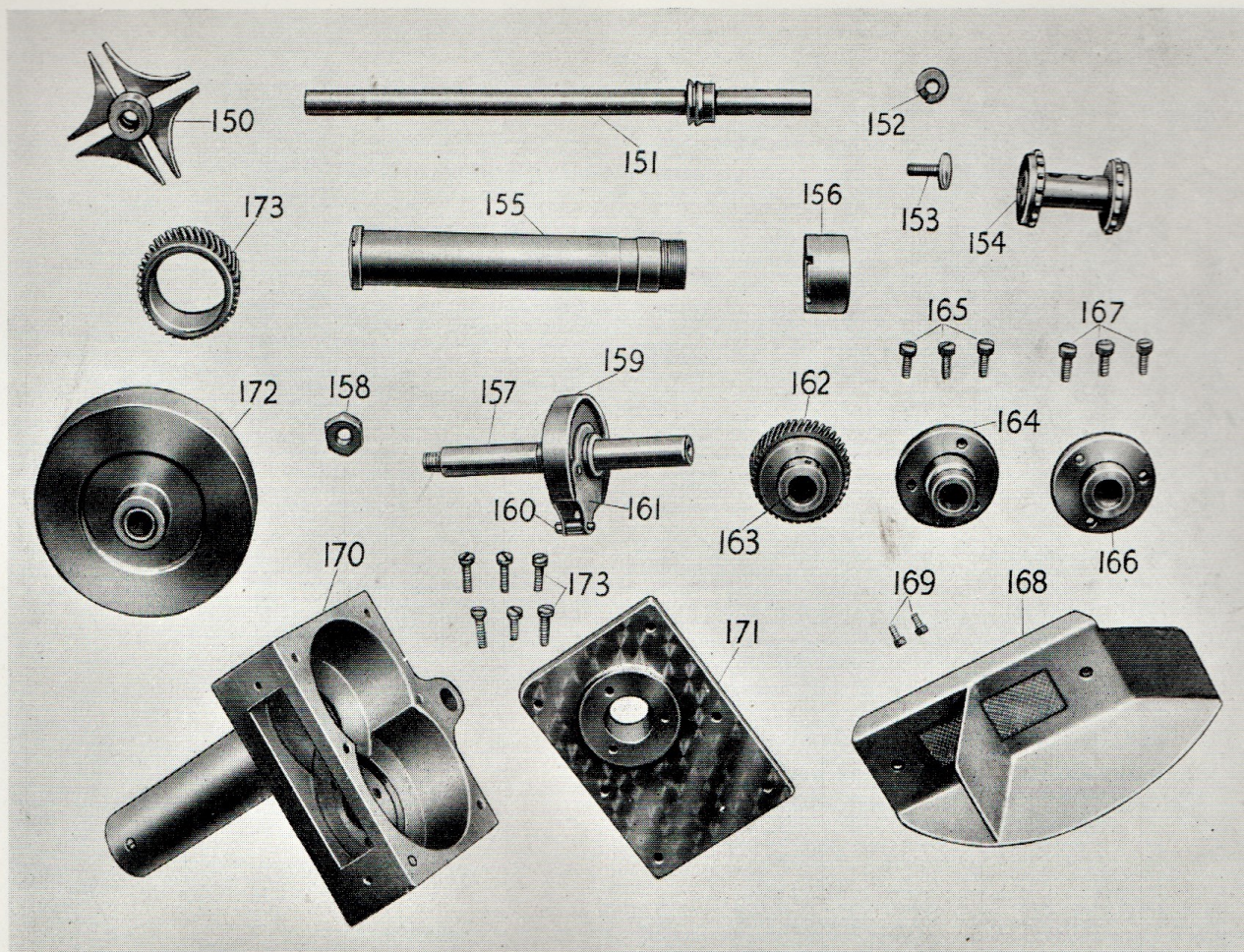
REPLACEMENT PARTS—cont.

- | | |
|--|---|
| 67. Light mask assembly (complete). | 92. Lense holder adjustment screw. |
| 68. Oil outlet pipe (internal). | 93. Lense holder adjustment screw nut. |
| 69. Oil draining outlet (external). | 94. Lense holder locking stud. |
| 70. Oil draining outlet cap (external). | 95. Lense locking stud. |
| 71. Oil draining outlet washer (external). | 96. Lense holder support lever. |
| 72. Oil filling cap. | 97. Lense holder support lever retaining screw. |
| 73. Racking spindle grip bush. | 98. Lense focussing locking stud. |
| 74. Racking spindle grip collar. | 99. Lense focussing locking stud washer. |
| 75. Racking spindle grip bush fixing screws. | 100. Lense focussing locking lever. |
| 76. Idler roller (near intermittent sprocket). | 101. Lense focussing knob. |
| 77. Idler roller (stud intermittent sprocket). | 102. Top oil chamber ring. |
| 78. Idler roller retaining screw. | 103. Top oil chamber window. |
| 79. Idler roller (second). | 104. Intermediate gear support bracket stud. |
| 80. Idler roller stud. | 105. Intermediate gear support bracket stud screw. |
| 81. Idler roller retaining screw. | 106. Intermediate gear collar (racking gear retaining). |
| 82. Drum shutter housing fixing screws. | 107. Intermediate gear collar (racking fixing screw). |
| 83. Intermittent sprocket stripper plate. | 108. Intermediate gear fixing boss (lower). |
| 84. Lense holder. | 109. Intermediate gear ball races. |
| 85. Lense holder fixing tube. | 110. Intermediate steel gear (lower). |
| 86. Lense holder spring. | 111. Intermediate fibre gear (lower). |
| 87. Lense holder support stud. | 112. Intermediate gear (large, upper). |
| 88. Lense holder support stud fixing nut. | 113. Intermediate gear fixing boss (upper). |
| 89. Lense holder catch stud. | 114. Intermediate fibre gear (upper). |
| 90. Lense holder catch stud fixing nut. | 115. Intermediate ball races. |
| 91. Lense holder grooved washer. | 116. Drum shutter fixing plate. |



REPLACEMENT PARTS—cont.

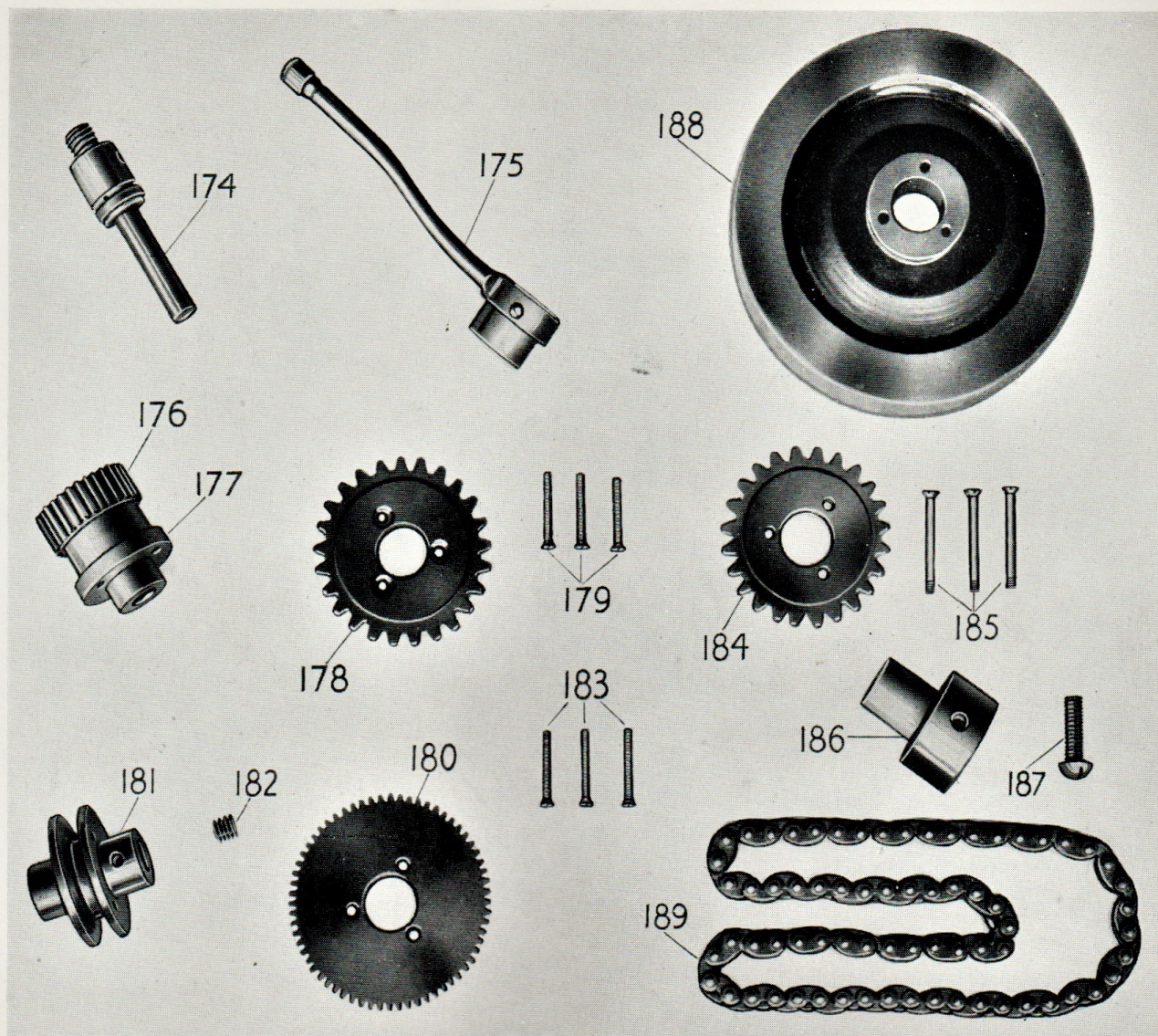
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| 120. Gate frame. | 135. Gate skid spring (top). |
| 121. Gate plate. | 136. Gate guide rollers (front and back). |
| 122. Gate catch slide housing. | 137. Gate guide rollers spring. |
| 123. Gate fixed knob. | 138. Gate guide rollers spindle with collar. |
| 124. Gate catch slide spring. | 139. Gate skids (top). |
| 125. Gate catch slide spring screw. | 140. Gate skids (bottom). |
| 126. Gate catch. | 141. Gate intermittent bracket rocking spindle. |
| 127. Gate catch housing screws. | 142. Gate idler roller spindle. |
| 128. Gate plate and catch housing screws. | 143. Gate idler roller. |
| 129. Gate skids spring adjusting knobs. | 144. Gate intermittent roller spindle. |
| 130. Gate intermittent bracket spring hinge spindle. | 145. Gate intermittent sprocket rollers. |
| 131. Gate intermittent bracket spring. | 146. Gate intermittent rocking bracket. |
| 132. Gate skid spring spindle (bottom). | 147. Gate intermittent roller spindle. |
| 133. Gate skid spring (bottom). | 148. Gate hinged rocking bracket holder. |
| 134. Gate skid spring spindle (top). | 149. Gate hinged spindle. |



REPLACEMENT PARTS—cont.

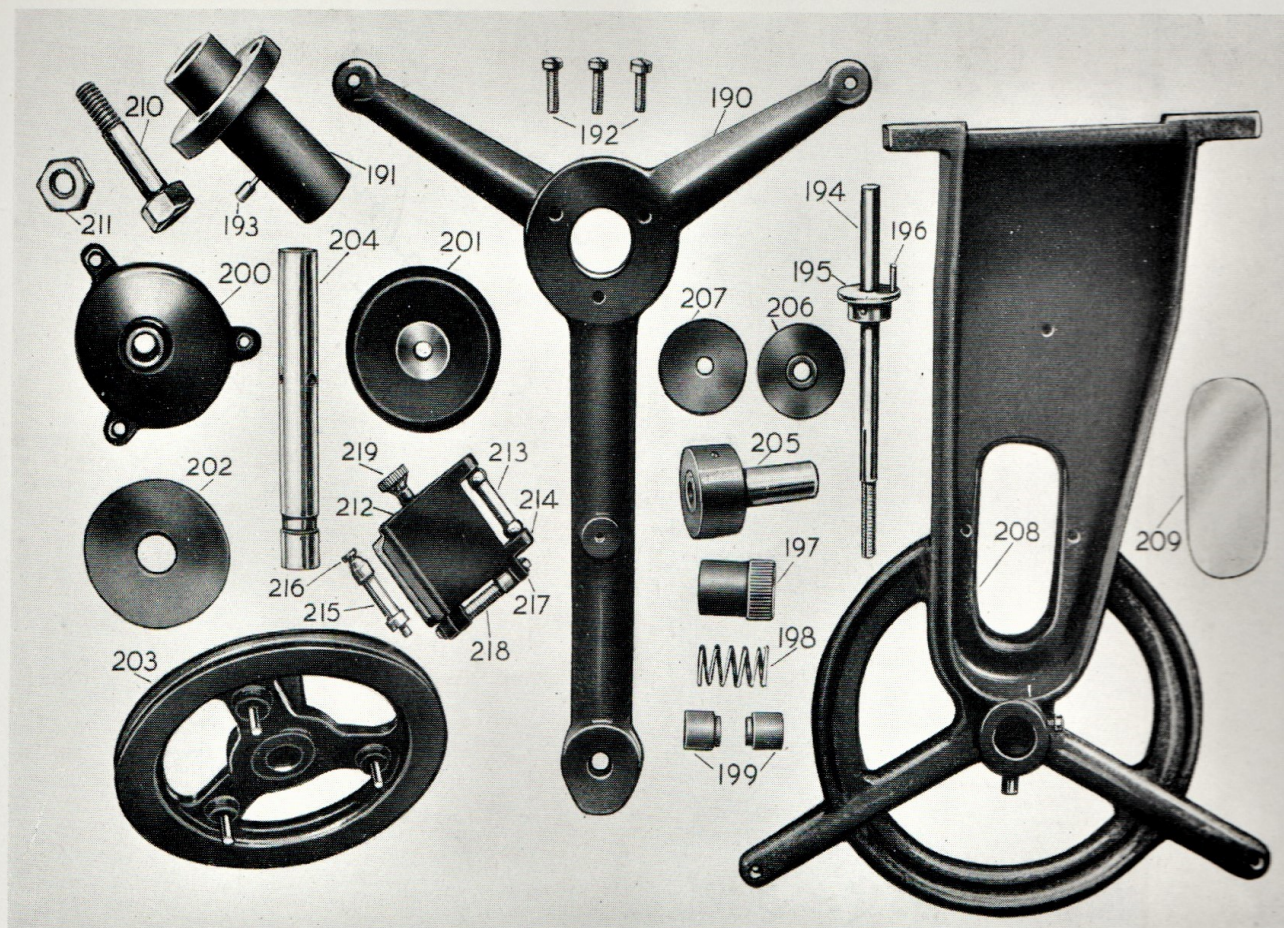
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| 150. Maltese cross. | 162. Striker gear. |
| 151. Intermittent sprocket spindle. | 163. Striker gear fixing boss. |
| 152. Intermittent sprocket key collar. | 164. Striker shaft bearing (gear end). |
| 153. Intermittent sprocket end fixing screw. | 165. Striker shaft bearing fixing screws. |
| 154. Intermittent sprocket. | 166. Striker shaft bearing (flywheel end). |
| 155. Intermittent sprocket spindle eccentric bearing. | 167. Striker shaft bearing fixing screws. |
| 156. Eccentric bearing locking collar. | 168. Maltese cross box oil filter cover. |
| 157. Striker shaft complete unit. | 169. Maltese cross box oil filter fixing screws. |
| 158. Striker shaft flywheel fixing nut. | 170. Maltese cross box machined casting. |
| 159. Striker cam. | 171. Maltese cross box machined cover casting. |
| 160. Striker roller and eccentric spindle. | 172. Maltese cross box flywheel. |
| 161. Striker shaft cam end plates. | 173. Maltese cross box idler gear. |

EASE IN MAKING ADJUSTMENTS AND FITTING REPLACEMENT PARTS



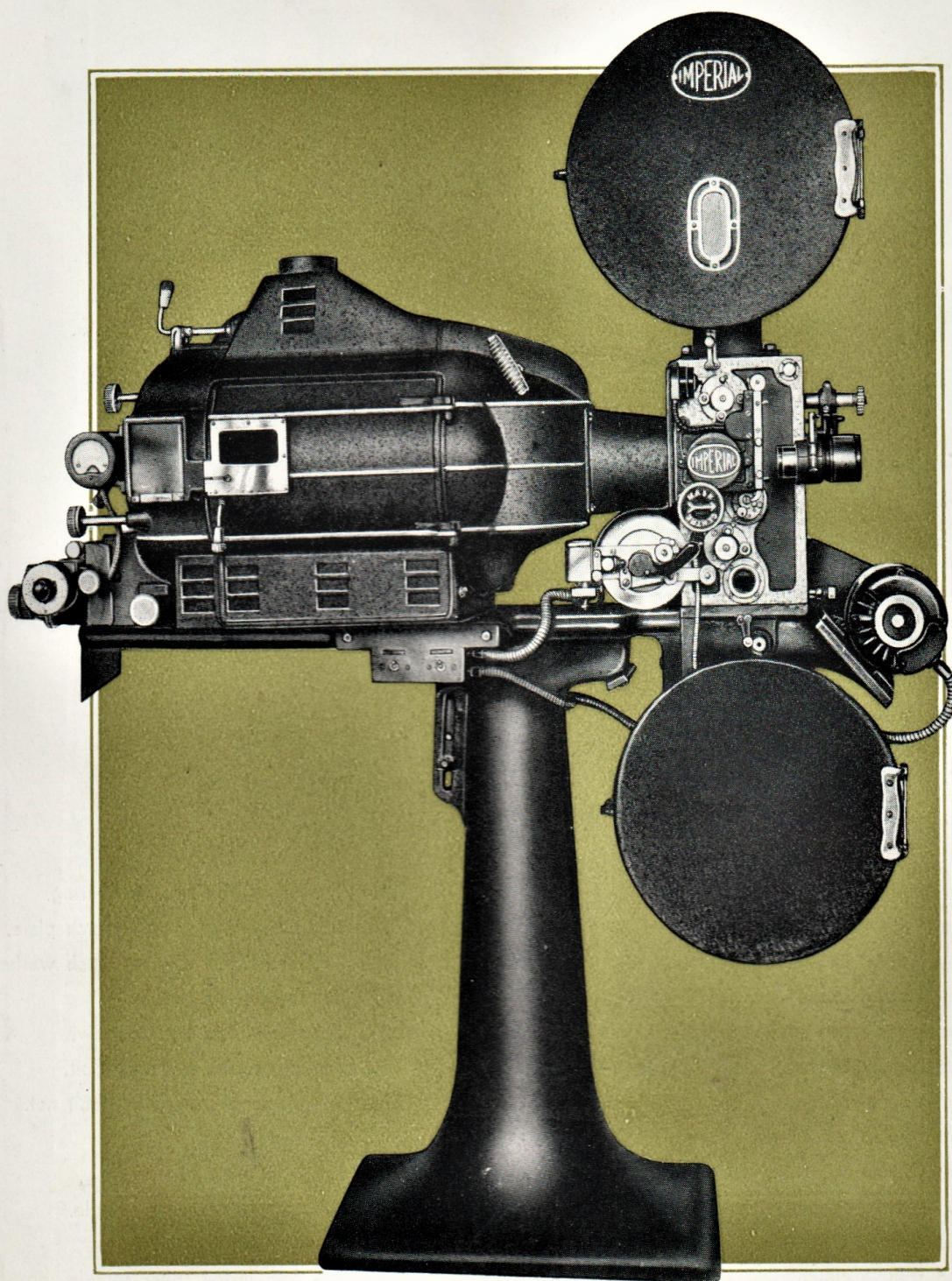
REPLACEMENT PARTS—cont.

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| 174. Main drive intermediate gear stud. | 182. Main drive gear pulley fixing screw. |
| 175. Main drive intermediate gear stud oiler. | 183. Main drive gear fixing screws. |
| 176. Main drive intermediate gear. | 184. Chain sprocket (motor). |
| 177. Main drive intermediate gear fixing boss. | 185. Chain sprocket fixing screws. |
| 178. Main drive intermediate chain sprocket. | 186. Chain sprocket fixing boss. |
| 179. Main drive intermediate gear and sprocket fixing screws | 187. Chain sprocket boss to motor fixing screw. |
| 180. Main drive gear (projector). | 188. Motor flywheel. |
| 181. Main drive gear and pulley boss. | 189. Silent chain drive. |



REPLACEMENT PARTS—cont.

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|--|---|
| 190. Bottom spool box arm. | 205. Top spool box spindle bearing. |
| 191. Bearing support boss. | 206. Top spool box spindle clutch plate. |
| 192. Bearing support boss fixing screws. | 207. Top spool box spindle clutch washer. |
| 193. Bearing support boss oiler. | 208. Top spool box arm. |
| 194. Take-up spindle (top and bottom). | 209. Top spool box arm window. |
| 195. Take-up spindle boss. | 210. Bottom spool box fixing bolt. |
| 196. Take-up spindle boss pin. | 211. Bottom spool box fixing bolt nut. |
| 197. Take-up spindle adjustment knob. | 212. Fire trap. |
| 198. Take-up spindle adjustment knob spring. | 213. Fire trap outer roller. |
| 199. Take-up spindle adjustment knob spring collars. | 214. Fire trap outer roller spindle. |
| 200. Take-up spindle clutch plate (outside). | 215. Fire trap inside roller. |
| 201. Take-up spindle clutch plate (inside). | 216. Fire trap inside roller spindle. |
| 202. Take-up spindle clutch washer. | 217. Fire trap hinge pin. |
| 203. Take-up driving pulley. | 218. Fire trap hinge spring. |
| 204. Take-up spindle bearing. | 219. Fire trap knob. |



IMPERIAL III PROJECTOR

Complete on pedestal stand with IMPERIAL High Intensity Arc
Lamphouse and IMPERIAL S2 type Soundhead



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