

# Bauer

SOUND HEAD

# LT7

Combined with

M  
7

BAUER LTD.

Warner House, 135 Wardour Street, London, W1.

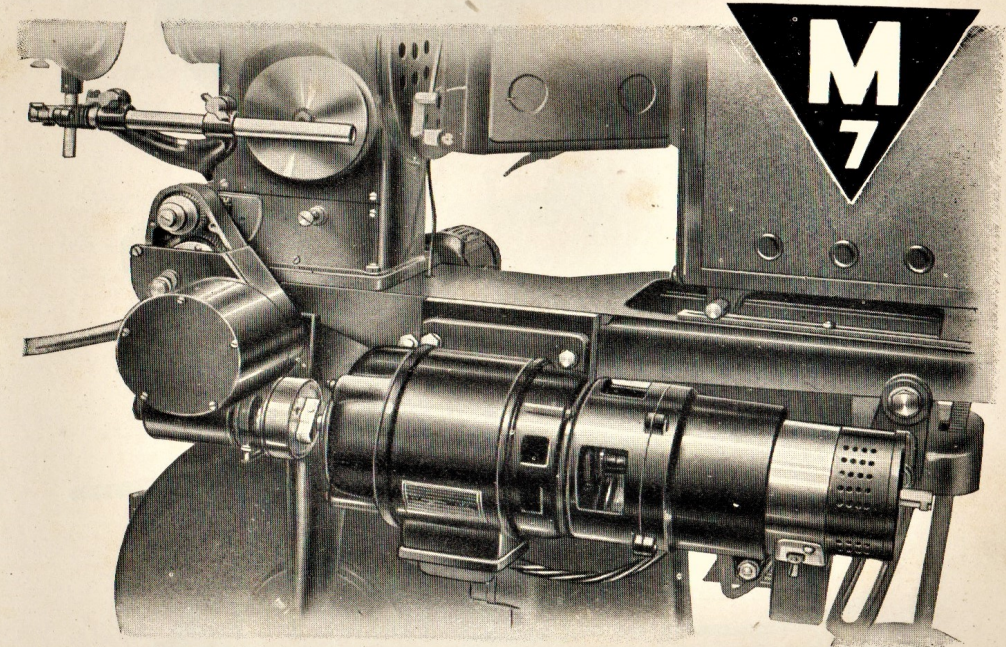


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## SOUND HEAD

# LT7

Combined with



THE PERFECT  
SUPER INSTALLATION FOR  
THE MODERN THEATRE

All improvements on this equipment are covered by patents.

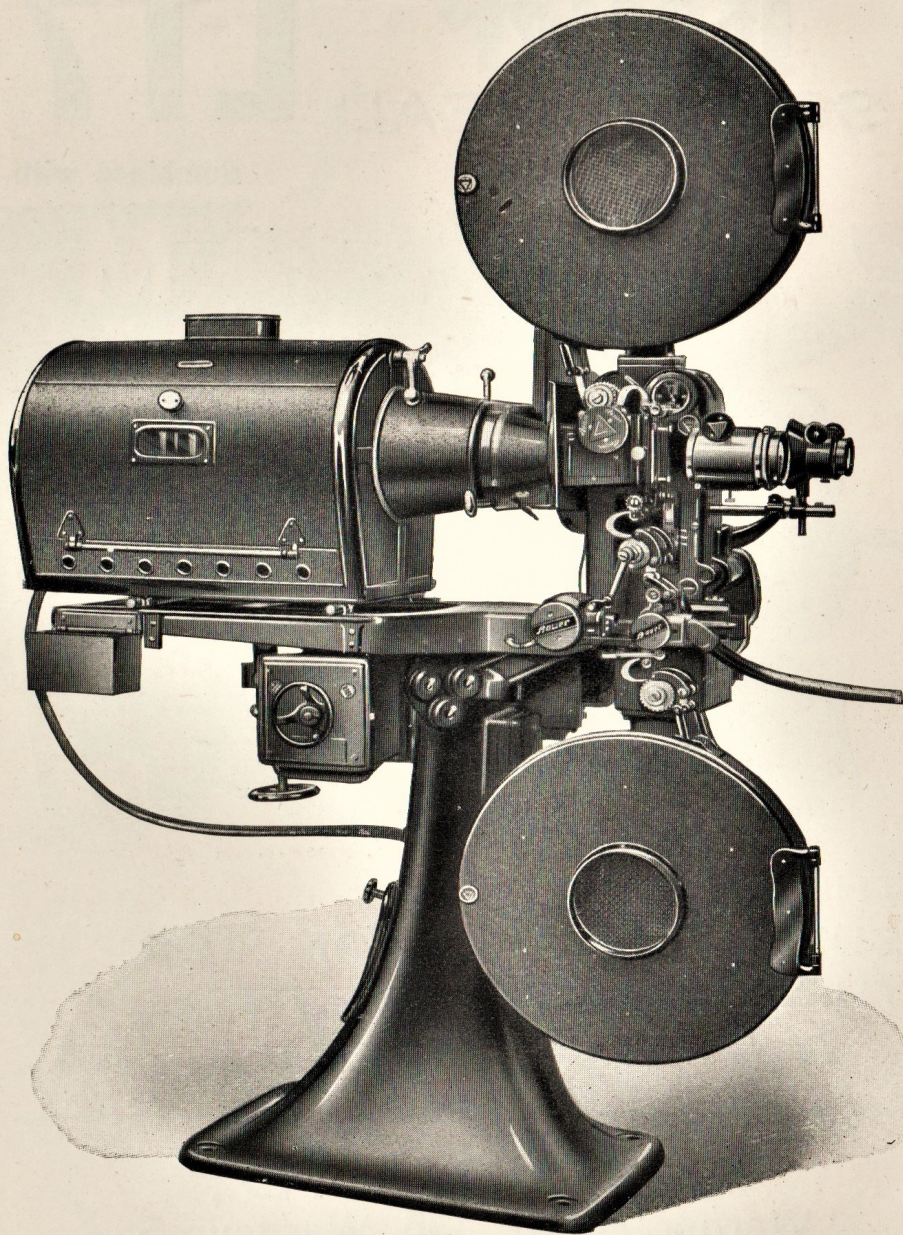
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London, W.1.

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Gerrard 1242.

Cables and Telegrams :  
"Cinesound, Rath, London."





M7 with LT7, Crank Side.

## SOUND HEAD LT 7

*THIS* equipment has been especially constructed for the M7 Projector and is only used in conjunction with this machine. The drive and arrangement of all parts are specially designed for the particular requirements of the M7 machine, and the whole outfit certainly constitutes the ideal installation for the modern theatre.

The M7/LT7 is more than a Projector with built-in Sound Head, for it possesses all the advantages of such a combination. Moreover, the enclosed construction only serves to amplify its exceptional utility, namely:

**The assembly of Projector and Sound Head into one unit without sacrificing the independence of each and every part.**

*The main features are :*

**Solid construction.**

**Absolute reliability.**

**Long life.**

**Simple handling and arrangement of all parts.**

**Clear and natural reproduction of dialogue and music.**

Already the first LT7 installations, which have been in use in large theatres for several years, have fulfilled all expectations and thoroughly proved their reliability. The new LT7 construction is the result of valued experience gained in the sound film industry. M7/LT7 is a sound equipment which fulfils all the requirements of an up-to-date theatre in quality and performance of its projector outfit and is, therefore,

**the perfect super installation  
for the modern theatre.**

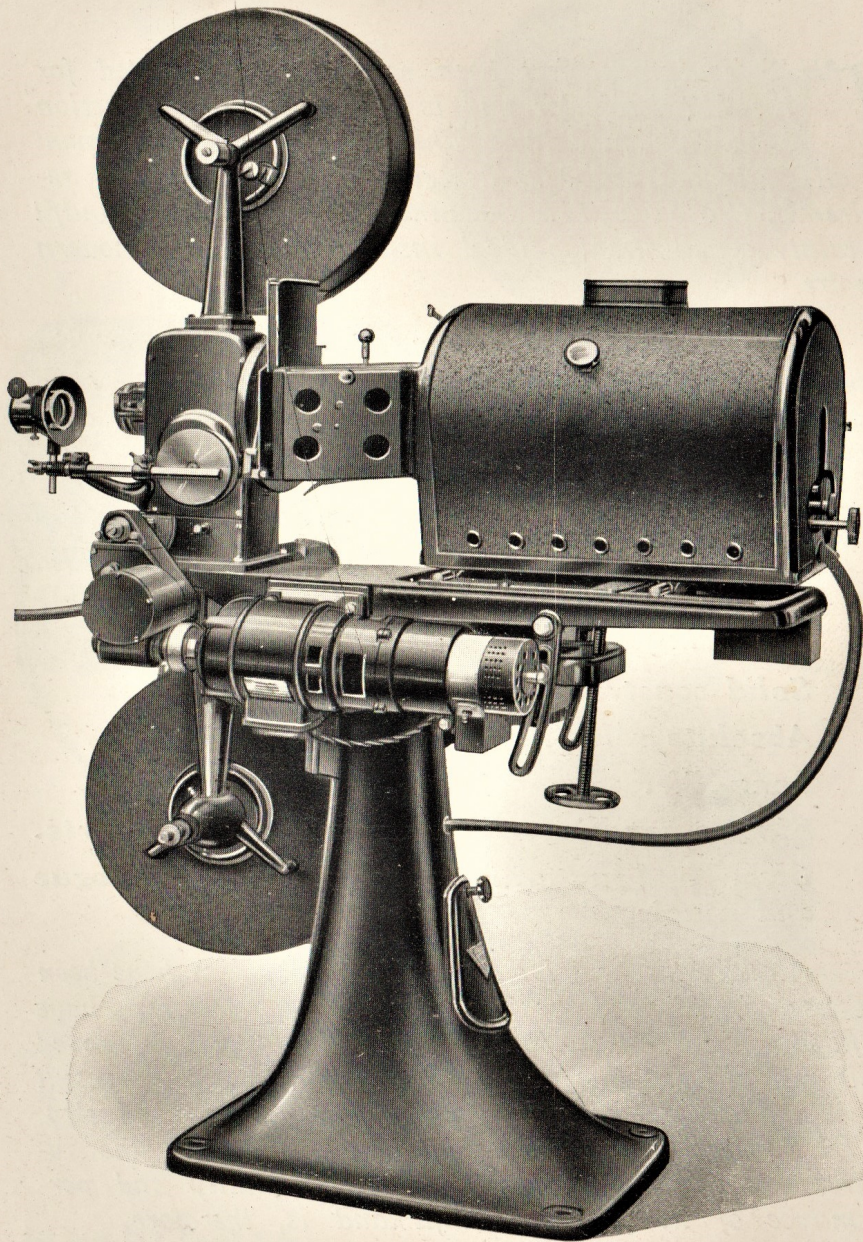


## SOUND HEAD LT 7

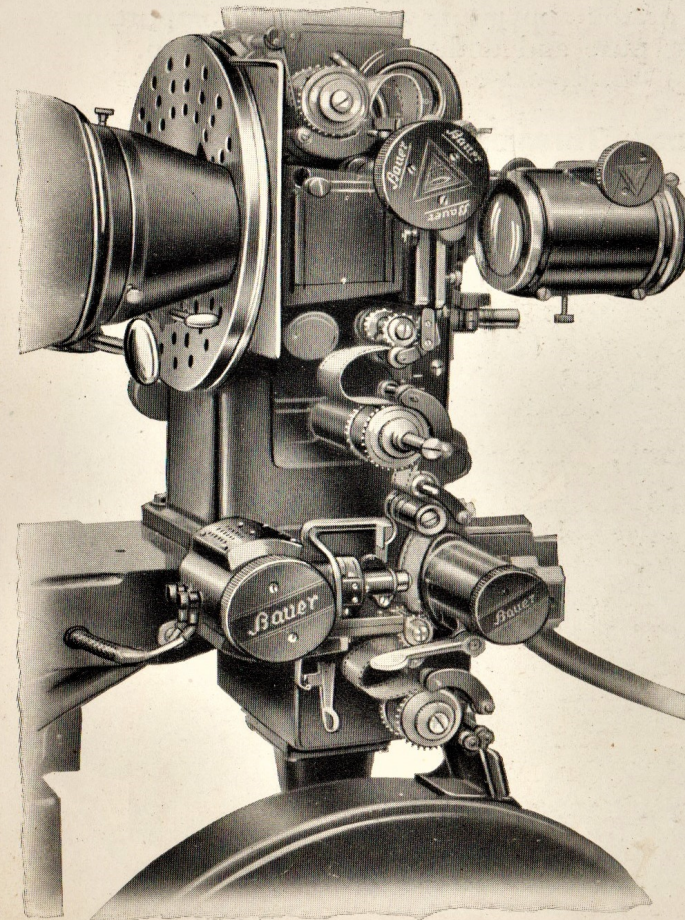
All parts of this machine have been so constructed as to ensure absolute reliability. Under normal conditions of use it can be claimed to be free from interruptions and break-downs. Full guarantee is given for durability under ordinary conditions even when put to the most stringent test. Every operator can serve the equipment, even without previous experience.

### Absolute Rock-Steady Running

The sound pick-up is below the lower driving sprocket. An additional driving sprocket engages the film and ensures a smooth and continuous drive through the Sound Gate. Moreover, yet another driving sprocket is employed between the sound head and the pick-up spool so that inequalities of drive on the lower spool cannot influence in any way the reproduction of sound track. Such an arrangement achieves a faultlessly continuous drive.



**M 7 with LT 7 Flywheel Side**  
Horizontal Motor Drive with Built-in Sound Head (T.L.M) Solid Coupling



**M 7/LT 7, Film Track**



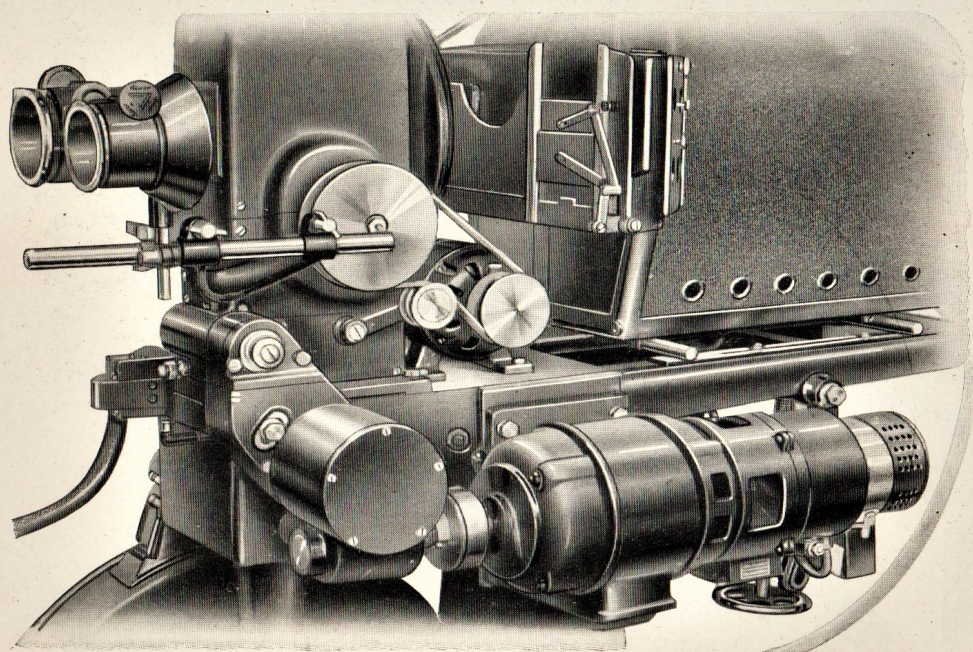
## Film Track

The sound head has a convex film track over which the film passes in a steady and continuous manner, thanks to the ingenious design of the driving sprockets. By means of an idler sprocket and a tension roller operating below the last driving sprocket of the film head, the film is given a tension which precludes any possibility of play or lashing at the sound pick-up. The body of the sound gate is tubular and forms a housing for the photo-electric cell.

In front of this housing the conductor cable is affixed, which is directly and positively connected with the photo-electric cell itself. By this means all small gauge wires, notorious for their sensitivity to external disturbances, are eliminated from the interior of the apparatus, a particularly important factor in obtaining pure and undistorted reproduction.

## Quick Threading of Film

When threading the sound film, the sound film track is moved parallel to the optical centre by a lever which at the same time



M7/LT7 with Auxiliary Motor for Silent Projection.

releases the lower idler roller. This, coupled with the practical manner in which the remaining rollers are set, enables the film to be threaded in practically the same time as is necessary with silent film projectors.

## Drive

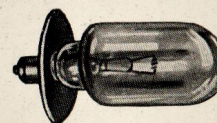
The projector and the sound head are driven direct from the motor by means of a flexible coupling. Belts, chains, etc., are thus eliminated.

## Optical System

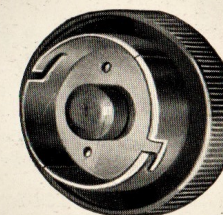
The optical system is designed to yield the highest possible concentration of light on the sound track. All the parts of the unit, including the exciter lamp, are arranged in the same plane of projection.

## Self Centring Exciter Lamp

The exciter lamp is fitted with a self centring flange which renders the replacement of a defective lamp a matter of seconds only. It is merely necessary to remove the cover cap of the lamp casing and replace with a new lamp.



Exciter Lamp

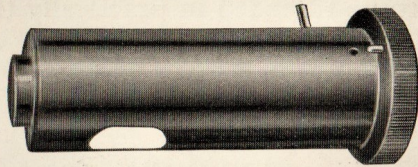


Cover Cap  
for  
Exciter Lamp

The apparatus can be supplied with a small lamphouse and adjustable lampholders. In such cases the lamp is placed in the socket which is easily removed. Every equipment is supplied with two reserve holders and lamps. Here again, replacements are a matter of seconds only. The exact centring of the lamp is effected without difficulty by means of the adjustable lampholder.



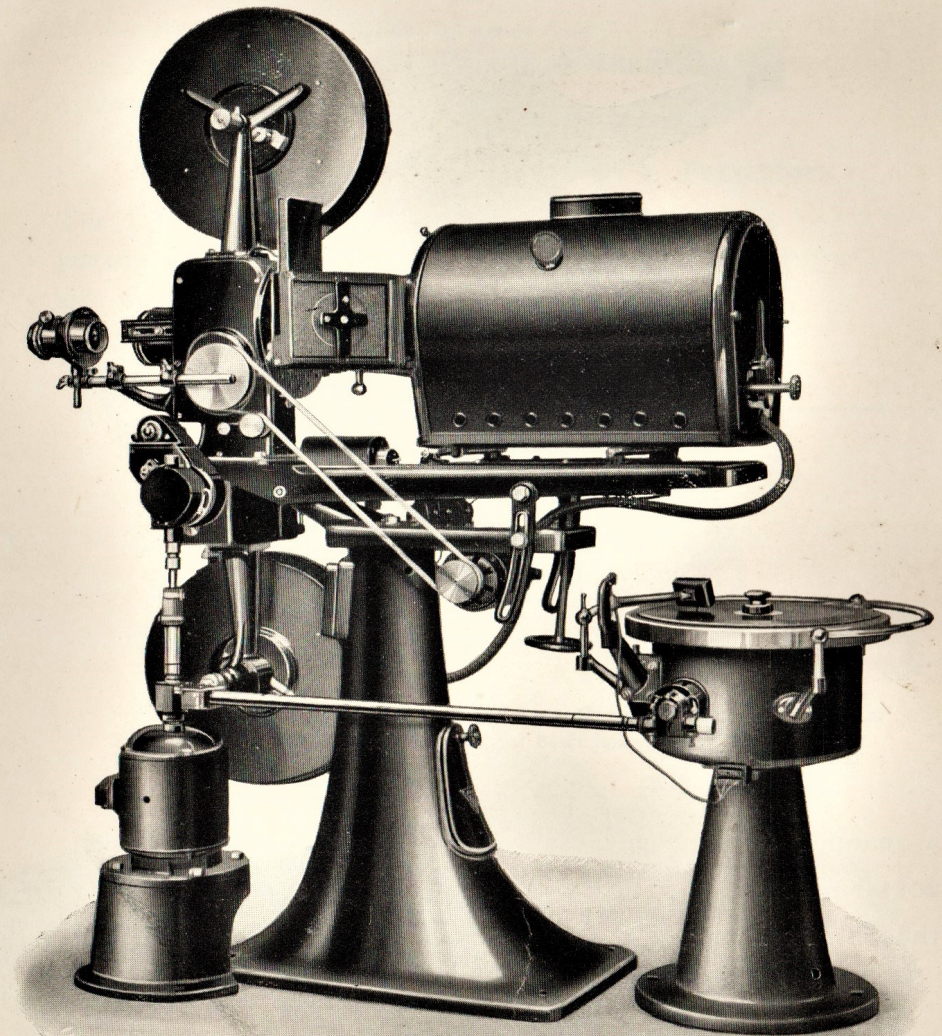
### High Grade Photo Cell



The sound head is equipped with a highly sensitive special Photo-Electric Cell of long durability. A high reserve of output and perfect reliability are ensured by the extraordinary sensitivity of the electric emulsion. The cell is embedded in rubber and enclosed in a metal housing which completely insulates the unit from electrical disturbances. A replacement can be effected in seconds, the trouble of connecting wires is completely obviated, the simple operation of replacing the cell cover automatically re-establishes contact between the cell and its cable. Reserve cells are supplied complete with housing.

### Non Sensitive Wiring

The wiring between the photo-electric cell and the amplifying plant should be of the lowest possible capacity and should be completely free from capacity or induced disturbances. These requirements are unconditionally fulfilled in the conductors employed in this unit, so that its efficiency is of the highest possible standard. The cable is completely non-sensitive to any external disturbances and is especially protected against the chance transmission of machine noises.

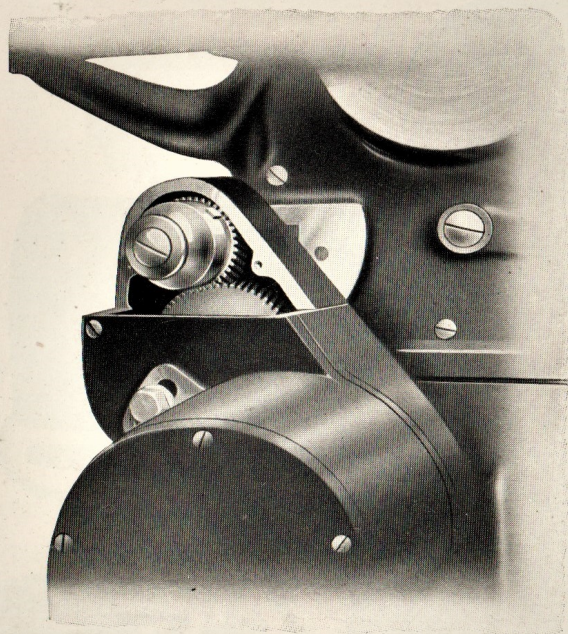


M 7 with LT 7 and P 1 Disc Attachment

### Reliable Sound Film Motor Coupled to Sound Head

The apparatus is supplied with either a vertical drive or horizontal motor. In both cases, the motor is mounted in such





**Gear with Cover Removed** (Coupling for disconnection of Sound Head for Silent Projection).

a manner as to ensure vibrationless running. The horizontal motor is supplied with attached generator for feeding the exciter lamp.

### **Driving Mechanism**

The driving mechanism incorporates a coupling by means of which the whole sound head gear and motor may be entirely disconnected so that when projecting silent films, the machine is driven, as heretofore, by the usual cine-motor.

### **Simple Assembly**

Assembly can be completed in a very short space of time. The apparatus is mounted in the same manner as every M 7 machine. Expert knowledge is not essential.

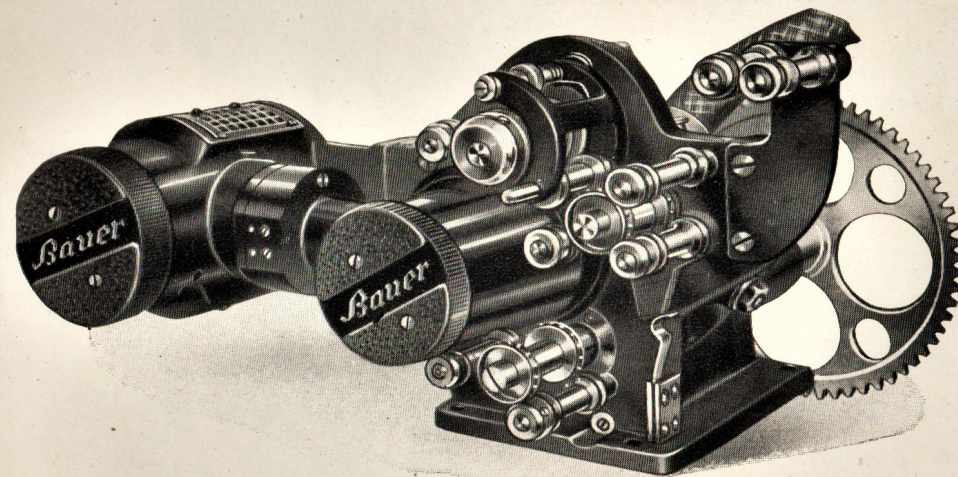
### **Subsequent Installation on M 7 Projectors.**

The LT 7 Sound Head can always be installed in M 7 Projectors already in use. No alterations to existing projectors are necessary.



# **Bauer**

## **UNIVERSAL SOUND HEAD LT5**



For use with all types of Projectors

For particulars of this Sound Head refer to catalogue LT 5

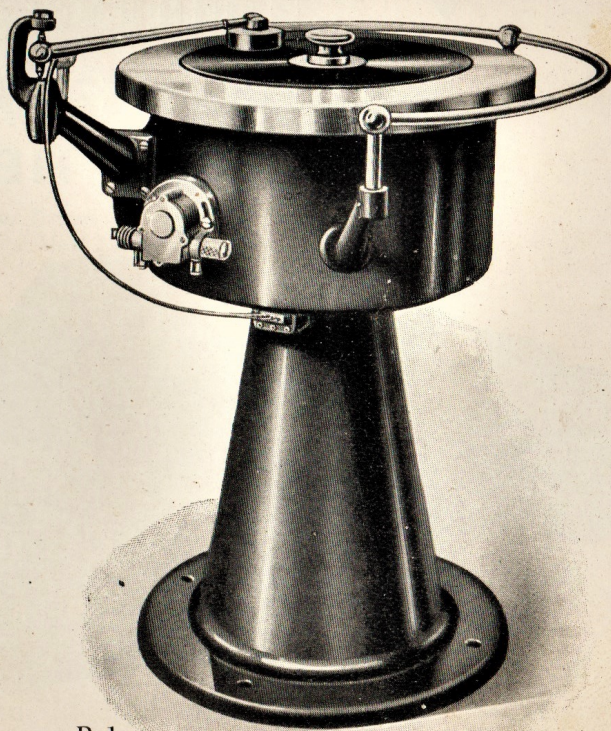


## Disc Reproducer

This may be fitted to any projector by means of a special drive or direct where a vertical motor is available. It may be used in conjunction with any type of sound head. Where a Bauer vertical motor is used, the disc is driven direct by a horizontal shaft with ball joints ; in all other cases the drive is maintained by a flexible cable. Full guarantee is given for perfect reproduction of sound on disc provided good records are used.

**P.1.** — This turntable is strongly built. A flexible drive successfully absorbs any irregularities of running speed.

**P.5.** — This is a simplified form of P.1. and intended for small theatres, enabling the cheapest possible reproduction of sound on disc films.



P. 1



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