

**P88**

**eumig**

englisch

**automatic**

**eumig**

**P 8 automatic**

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Fig. 1

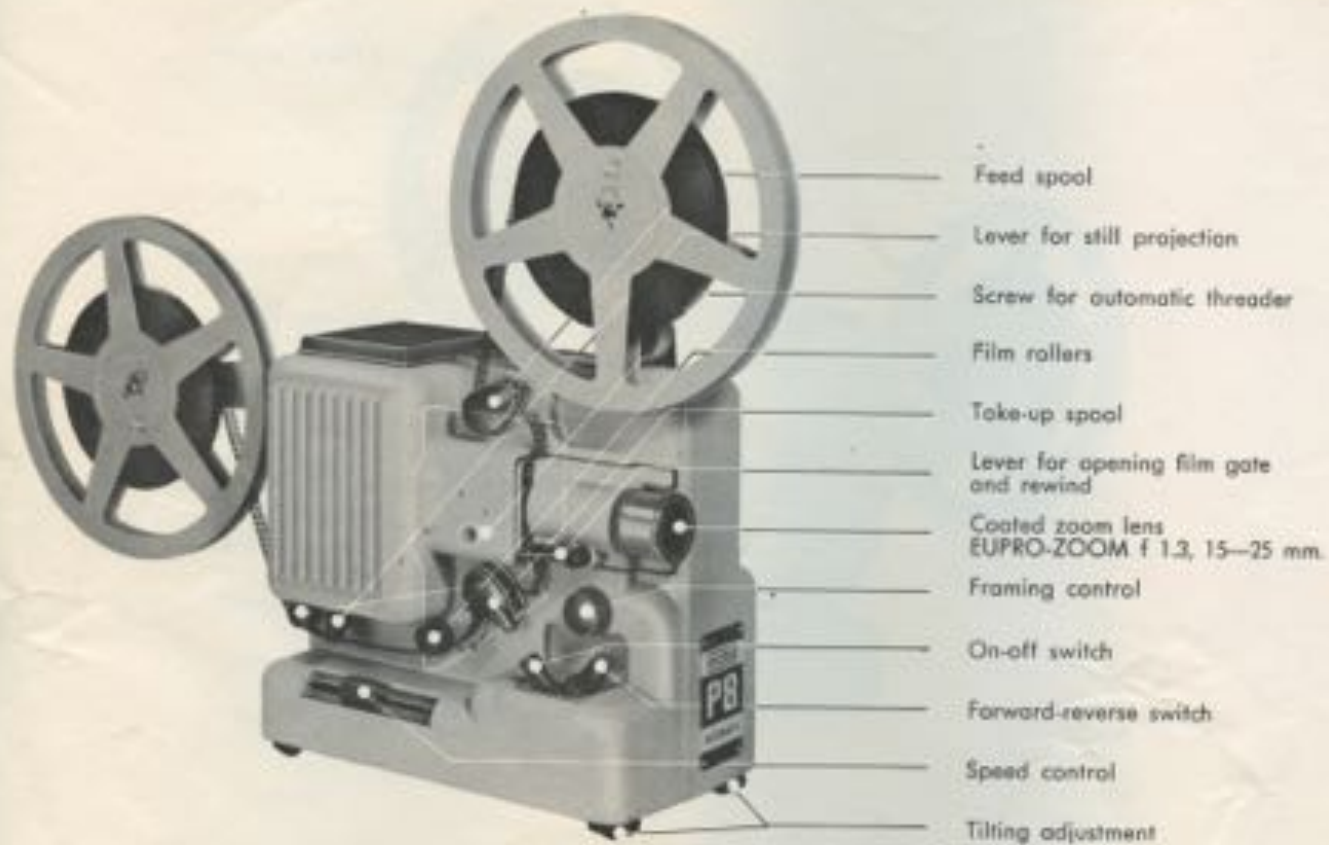


Fig. 2

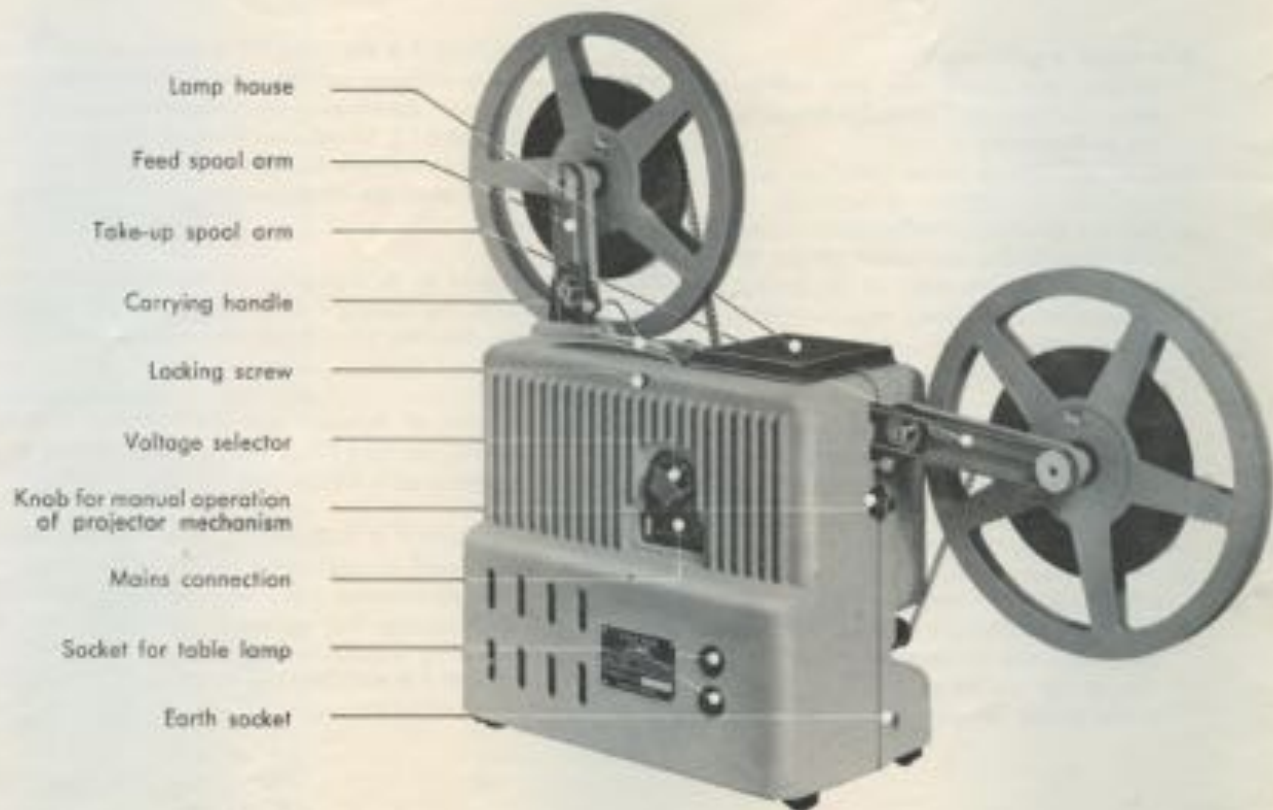


Fig. 1

**It is always a great event**

for you, your family and your guests when you show your films and bring the happy past back to life on the screen.

You are now the fortunate owner of a EUMIG P 8 AUTOMATIC, the ideal projector for the job, as it has everything necessary for the perfect projection of your valuable films, and possesses many excellent features.

The EUMIG P 8 AUTOMATIC has a special automatic threading mechanism. Threading the film in the projector is therefore completely trouble-free, necessitating only a few simple movements.

The EUMIG P 8 AUTOMATIC uses a low-voltage lamp and gives exceedingly bright illumination — in the same way as a car headlamp. EUMIG was the first firm to use this principle in 8 mm. projectors and it has proved its value a thousand times over.

The EUMIG P 8 AUTOMATIC is equipped with a specially designed optical system, which, in combination with the superior all-coated zoom lens EUPRO-ZOOM f 1.3, 15—25 mm., transmits extraordinarily large and vividly brilliant pictures. With this lens, the size of the screen picture can be changed at will.

Thanks to its high-precision film transport mechanism, the EUMIG P 8 AUTOMATIC gives outstanding freedom from flicker and maximum protection for your films.

In spite of its small size, the EUMIG P 8 AUTOMATIC can take 400 ft. spools without having to be mounted on a special base.

The EUMIG P 8 AUTOMATIC is simple and almost fool-proof in operation. Even if the controls are wrongly actuated, it is almost impossible to damage the projector, but we would ask you to read the following instructions carefully all the same. Your EUMIG P 8 AUTOMATIC will repay this study with trouble-free running.

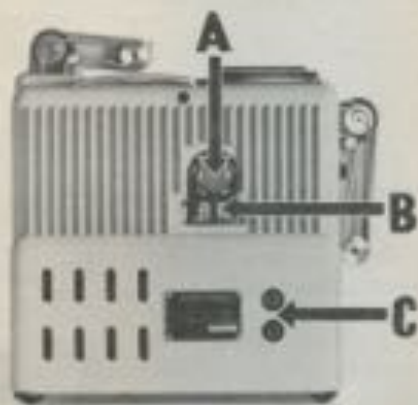


Fig. 4

#### Before connecting your projector to the mains

please refer to your electricity meter to check up on your mains supply. The EUMIG P 8 AUTOMATIC will operate only on 110—220 volt (110—240 volt) A.C. (50—60 cycles). The voltage selector A (Fig. 4) above the mains socket is normally set to 220 volts. If you do not have 220 volt current, you must adjust the voltage selector by turning it until the correct voltage is opposite the white dot. Before you reset the voltage selector, you must disconnect the mains lead. Now swing out the two spool arms (Fig. 5) — the drive belts always remain in position.

Fig. 5



You can now connect the P 8 AUTOMATIC to the mains by inserting the female plug of the mains lead supplied into socket B (Fig. 4). Please notice the connection for room lighting (C, Fig. 4). We suggest that you connect a table lamp or small standard lamp to socket C. The lamp goes out automatically when the projector is switched on and comes on again when the projector is switched off.



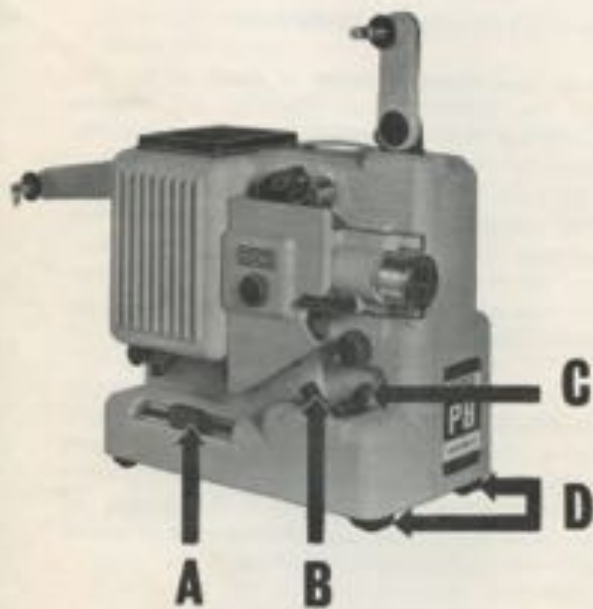


Fig. 6

Set the speed control A (Fig. 6) at its middle position. Switch on the motor and projection lamp by means of switch B.

Switch C operates the forward-reverse mechanism. There is more about this on Page 14 "Reverse projection".

Your P 8 AUTOMATIC has a specially developed illumination system working on the low voltage principle which guarantees high image brilliancy and maximum lamp life.

The projection lamp used is a 12 volt lamp with a 4-pin bayonet cap. The average life of the lamp is stated by the manufacturers to be 25 hours.

Fig. 7

To replace the lamp, open the lamp house as shown in Fig. 7, turn the lamp slightly, and pull it out. CAUTION: The lamp will be hot after projection!

Insert the new lamp by pressing down slightly and turning in a clockwise direction. Replace the lid of the lamp house (Fig. 8). It is not necessary to centre the projection lamp, as these special lamps are pre-centred, that is, the position of the light point in relation to the cap has already been set with great accuracy by the makers.

The two screw feet D (Fig. 6) are for tilting the projector.

In order to comply with regulations in various countries regarding the earthing of electrical appliances, the P 8 AUTOMATIC is provided with an earth socket (Page 5, Fig. 3).



Fig. 8

Fig. 9



#### Automatic threading of the film

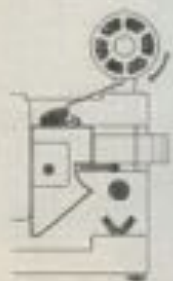
Having trained your P 8 AUTOMATIC on the screen and set the projector to the correct height, you can proceed to thread the film. An error-free functioning of the automatic threader is only then guaranteed when the film end has been properly prepared, that is, trimmed in the correct way. Fig. 9 shows how the correctly trimmed film end should look like. Take good care that the perforation A is not damaged by the trimming.

**NOTE:** For the preservation of your valuable film we recommend the splicing on of a long leader. As, for a perfect functioning of the automatic threader it is essential to have an absolutely straight end to the film, created or half-torn film ends must be cut off or made perfectly smooth.

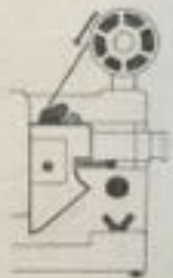


Fig. 10

After having put the feed spool on the front arm — with the perforations on the right, looking towards the screen from behind the projector — set lever C on point D and the speed control to its middle position. Switch on the projector by means of switch E (switch F must be set to "forward" and the lever for still projection should NOT be on "still projection", see Fig. 10). With the motor running, the end of the film is slid between the stamped rib and the feed sprocket. From this moment onward, the automatic threader takes charge of all further film manipulation. In case it was forgotten to set lever C to the correct position and the film has already engaged in the automatic threader, all that is necessary is to switch to "reverse" (see "Reverse projection" on Page 14). The film then disengages from the automatic mechanism. After having set lever C to point D, the film may be re-inserted in the automatic threader.



I



II

**NOTE:** Films that have just come back from processing will usually wind off as shown in Sketch I on their first run through the projector. In this particular case, reverse projection, described on Page 14, is impossible as the film would not be wound on to the take-up spool. Only when the film has been run through once normally and subsequently rewound will it come off the spool in such a way (see Sketch II) that reverse projection is possible.

After the film has run through the take-up sprocket turn the lever C fully to the left (Fig. 11). This locks the film transport and frees the loops which have been formed by the automatic threader. After the film has finally passed under the film rollers and a sufficient length has come out at the other end, the motor must be switched off. The end of the film can now be attached to the take-up spool.

Here we should like to mention the handy EUMIG 400 ft. spools. As you will see from Fig. 12, spring tongues are attached to the cores, and by this simple means the film is held firm.

Fig. 11



Fig. 12



Fig. 13



Fig. 14



Fig. 15

#### Threading by hand

The P 8 AUTOMATIC can also be threaded by hand. This may be necessary when it is desired to project a piece of film somewhere in the middle of the spool. For this purpose, first unscrew the automatic threader (see Fig. 2, Page 4, for position of this screw), next unwind a sufficient length of film, open the gate by turning lever A downwards (see Fig. 13), thread the film and close the gate by moving the lever back. Do not put the gate-opening lever completely over to the right — this would switch on the rewind mechanism.

After the loop has been shaped by following the line indicated on the side of the projector, the film is led past the feed sprocket. Pull gently as indicated in Fig. 14, and the perforations will be engaged by the teeth of the feed sprocket. Lead the film past the take-up sprocket in the same way (see Fig. 15). Then lead the film under the guide rolls and fix to the spool on the take-up arm — if it is the beginning of the film which is being threaded.

At the rear of the projector is the knob for manual operation of the projector mechanism (Fig. 20, Page 14). This feature enables you to ensure before showing your film to an audience that the claw is transporting the film correctly.

## Projection

The P 6 AUTOMATIC is now ready for projection. Switch on by means of switch E, as described in "Automatic threading of the film" on Page 10. The table lamp connected to the projector will immediately go out. First determine the desired screen picture size by holding the lens with the left hand, by the knurled ring, while the right hand is grasping the front rim (the ring bearing the inscription) and pulling out the tube in the direction of the projection. Then focus by rotating the lens to the right or left. Picture size and focus are, of course, also adjustable during projection. Adjust the running speed if necessary with the speed control A (Fig. 16) until all flicker disappears.

**NOTE:** During the short time taken by the automatic threading of the film, the projector noise is slightly louder than during the actual projection.

In order to protect the film, a special gold-glass heat-absorbing filter is automatically interposed between the lamp and the film when the projector is switched on, remaining in position until the normal speed has been reached. This filter is also interposed as soon as the speed drops to below 10 frames per second.

If parts of two frames are shown on the screen, turn knob B until this fault disappears.

Fig. 16

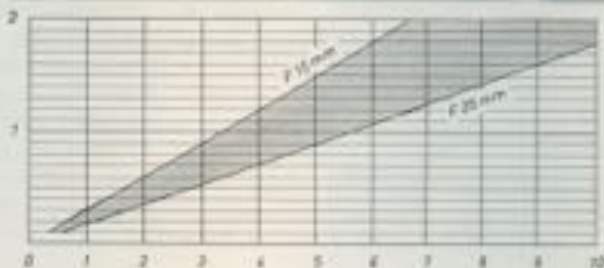
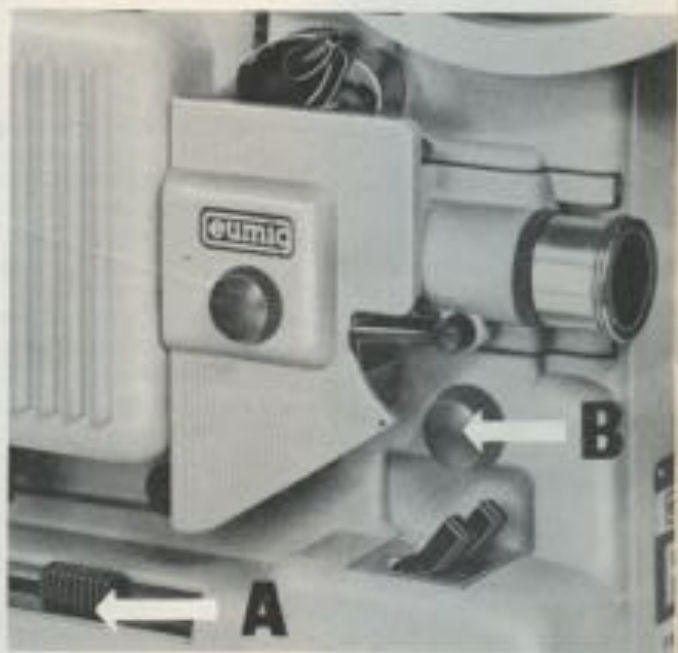


Fig. 17



Fig. 18

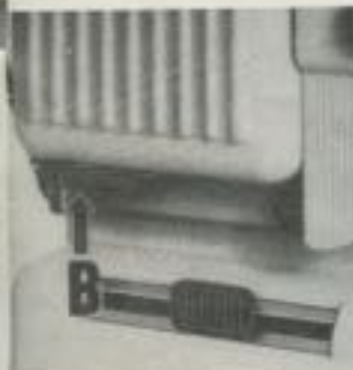


Fig. 19



Fig. 20

If you are expecting guests, it is advisable to have a trial run to make any necessary adjustments for picture size, focus, speed and framing. Then all you have to do is to switch on the projector. At the end of the performance you just switch off the projector, and the table lamp will automatically come on again. Fig. 17 shows the relationship between picture size and screen distance when using the focal lengths range of the EUPRO-ZOOM (15—25 mm.).

#### **Visible reverse projection**

The P B AUTOMATIC also permits reverse projection. To switch over from forward to reverse, simply move switch A (Fig. 18). There is no need to switch off the projector beforehand. During the short time the film slows down, stops, and begins to run backwards, a shutter automatically cuts off the light to protect the film from damage. This moves out of the optical path again once the film has reached the required running speed. After switching from forward to reverse projection or vice versa, it may be necessary to readjust the framing.

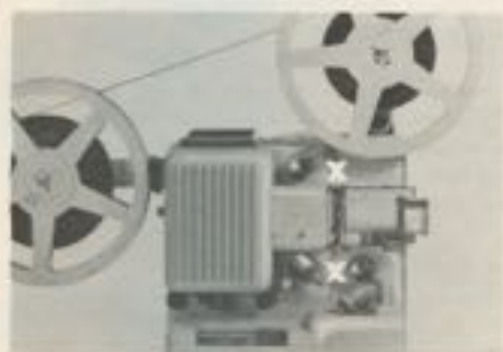
#### **Still projection**

Still projection serves for observing individual frames of a film. In this case, pull back switch B as shown in Fig. 19. This automatically introduces the special goldglass heat filter into the optical system, noticeable by the drop in the projected image brilliance. On switching to still projection, the rotating projector shutter may occasionally stop in front of the film gate and so obscure the picture. In that case, turn knob C (Fig. 20) at the rear of the projector until the required frame appears on the screen. This knob also serves to move the film forward or back, frame by frame, for selecting any particular single frame.

Fig. 21



Fig. 22



### Rewinding

is a very simple and speedy operation with the EUMIG P 8 AUTOMATIC as the projector has power rewind. You will find this a great blessing with the large 400 ft. reels.

When the trailer has completely run through, lead the film directly from the take-up to the feed spool and fix it to the latter. Then turn lever D as far forward as it will go, which couples the rewind mechanism, and the film will be rewound quickly. When rewinding is almost complete, it is advisable to reduce the speed by means of the motor speed control. For rewinding, switch A must be set to "Forward". Should you have set it to "Reverse" by mistake and switched on the rewind mechanism, the projector motor will run, but the take-up spool will not revolve.

If you desire to rewind before the whole of the film has been projected, take off the automatic threader, open the film gate, gently remove the film therefrom, and disengage from the feed and take-up sprockets by pressing the spots marked "x". Only then is it possible to proceed with rewinding as described above.



### Care and maintenance of the P 8 AUTOMATIC

Keep the projector scrupulously clean, especially those parts that come into contact with the film. First unscrew the automatic threader. To facilitate cleaning the gate, the lens mount can be swung out to the right by turning the gate-opening lever after having disconnected the mains lead. Both the gate and the interchangeable lens must be cleaned from time to time, with a soft cloth or brush. Any dirt or film dust should be removed from the gate with a wooden skewer or some such object. Please do not use any metal object for this purpose — it would scratch the gate and thus damage your films.

The projector has life-long lubrication and it requires no attention whatsoever in this respect.

If necessary, the motor carbons can easily be removed for cleaning. Simply loosen the screw of the lower carbon on the base of the projector with a coin. In order to remove the upper carbon, loosen first the locking screw (Fig. 3, page 5) and open the side wall of the projector.

If you should have occasion to replace one of the wire

drive belts A or B, first of all put the gate-opening lever as far over to the right as it will go, as if you were going to rewind.

To replace the drive belt C, first set the still projection lever to "Still". You can now fit the belt, putting it first over the upper and then over the lower roller.

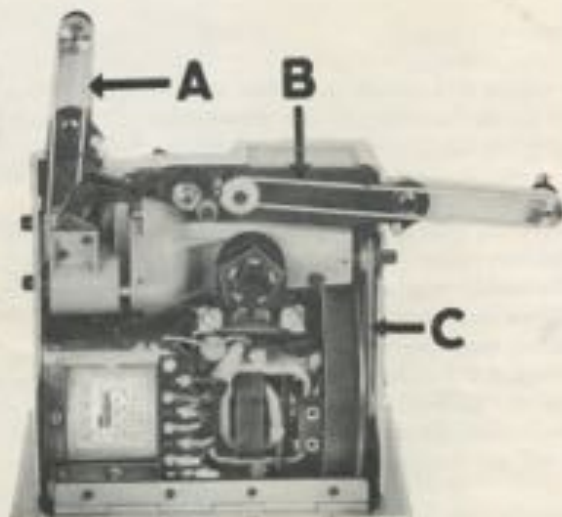
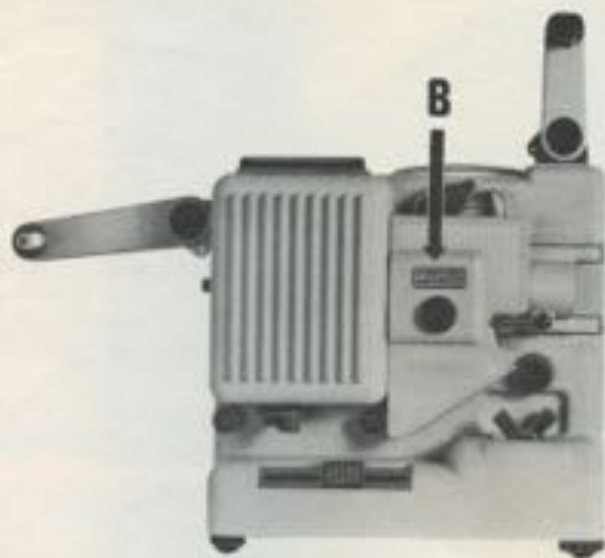


Fig. 23



Supplied with your EUMIG P 8 AUTOMATIC

- A. EUPRO-ZOOM f 1.3, 15—25 mm. lens
- B. Automatic Threader
- C. Projection Lamp
- D. One EUMIG 400 ft. spool
- E. 5 Film stops
- F. Mains Lead



The Birthplace of the EUMIG P 8 AUTOMATIC



The Vienna Works

Part of the  
Kirchdorf Works,  
Upper Austria



In the  
Wiener-Neudorf Works,  
Lower Austria



Projector Assembly Shop

. . . and now we wish you many hours of pleasure with your  
**EUMIG P 8 AUTOMATIC!**

We reserve the right to modify designs - Printed in Austria - Y-E-563

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