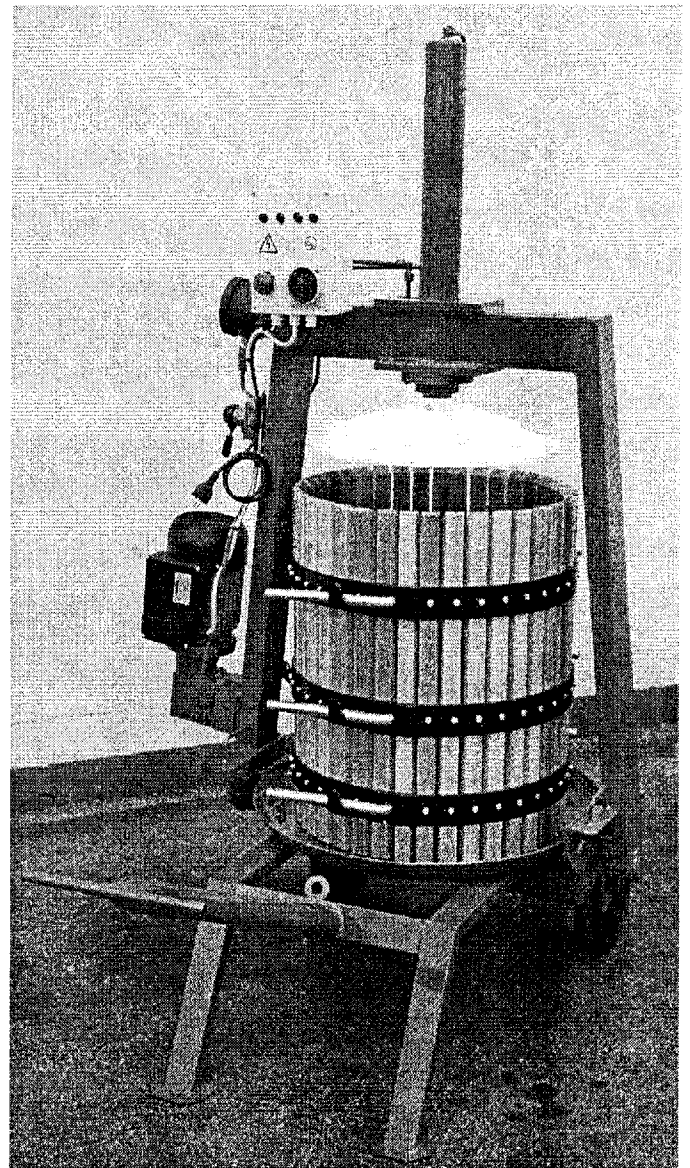


F.lli Marchisio
spa

**USER AND
MAINTENANCE
BOOKLET
TICO MOTOR**



Via Mazzini, 28
18026 Pieve di Teco (IM) Italy
Tel. 0183 36027 Fax 0183 36038

1 IDENTIFICATION OF MACHINE COMPONENTS

- A) ELECTRIC CONTROL BOARD
- B) ELECTRIC CONTACT GAUGE
- C) DISTRIBUTOR
- D) ELECTRIC MOTOR
- E) PUMP
- F) PISTON
- G) PRESSING PLATE
- H) CAGE
- I) TILLER FOR MOVEMENT
- J) COLUMN
- K) COLUMN LOCK
- L) COLUMN RETURN SPRINGS

2 SAFETY STANDARDS AND PRELIMINARY INSTRUCTIONS

Improper use and incorrect maintenance can cause damage to persons or property. To prevent possible accidents, comply strictly with these safety standards.

- a) **INSTRUCTIONS:** only use the machine after reading this booklet which, in the event of loss, can be requested from: F.lli Marchisio spa, Via Mazzini, 28 - 18026 Pieve di Teco (IM) Italy.
- b) **USE:** do not allow children, unauthorized persons or those without sufficient knowledge of its use to utilise the press.
- c) **MOVEMENT:** this is very simple; models D.40, D.50 and D.60 are provided with two wheels, while model D.70 has four wheels; this allows rapid and effortless positioning of all press models.
It is very important for presses to be moved on flat ground and not on slopes or uneven ground as, due to their structure, this operation would be extremely dangerous. During movement there must be no-one in the handling area. Always ensure that the column locks (fig. 4, components M) are in the locked position both in the pressing phase and during movement.
- d) **ELECTRIC CONNECTION:** - before each use check the condition of the wiring cables; in the event of damage or cuts replace the cable.
 - do not run tools or machinery over the cable, as this could cause irreparable damage.
 - do not lay power cables on wet or muddy ground.
 - switches, sockets and plugs must be insulated from dampness and earthed.
 - always use earthed cables.
 - always check before any connection that the mains voltage corresponds to the indications on the motor rating plate.
 - the electric system of the building must be provided with a thermal magnetic circuit breaker switch, to guarantee the safety of persons in the event of a fault.
 - keep children and irresponsible persons away from electric parts.
 - do not allow the motor to come into contact with any type of liquid
- e) **MOTOR BREAKDOWN:** in the event of breakdown or faulty operation of the electric motor, the operator must never disassemble it, but contact the dealer or manufacturer.

3 START- UP USER MANUAL

- a) **POSITIONING:** the machine must be used on a flat surface; other positions may cause it to overturn or may be dangerous.

IT IS ADVISABLE ALWAYS TO PERFORM A PRESSING CYCLE WITH THE MACHINE EMPTY THE FIRST TIME IT IS USED AND EACH TIME THE PRESS HAS REMAINED IDLE FOR A LENGTHY PERIOD.

b) LOADING THE PRODUCT TO BE PRESSED

- 1 Raise the column locks (Fig. 4 component M) (Mod. D.70 has a safety screw which must be removed before they can be raised).

- 2 Bend the column (Fig. 1 component L) towards the tiller (Fig. 1 component I) of the press.
- 3 Fill the cage with pomace to be pressed; it is essential to distribute the product evenly for correct press operation.
- 4 Upon termination of this operation return the column (Fig. 1 component L) to the starting position and lock it with the column locks (Fig. 4 component M). in Mod. D.70 insert and tighten the safety bolt.

c) **STARTING TO PRESS**

- 1 **SWITCHING ON:** connect the power cable with earth connection to the motor plug; the press is now ready to start pressing.
- 2 Turn the distributor lever (Fig. 3 component C) to the right.
- 3 Turn the switch on the control board (Fig. 3 component A) to position 1.
- 4 Adjust the operating pressure to minimum (100 ATM) using the small knob located on the electric contact gauge (Fig. 3 component B).

Your press will now start pressing; it will stop upon reaching the pressure preset on the gauge.

IMPORTANT: during the first pressing operations the pressure must reach 300 ATM gradually. When the pressure decreases after discharge of the pressed product, the automatism will start pressing again.

It is advisable to increase the pressure, using the knob located on the gauge, gradually, to prevent, in the event of pomace with a large quantity of must, this from spraying through the cracks in the cage. When the pressure remains fixed at maximum level, this means pressing has terminated.

- 5 After pressing turn the distributor lever (fig. 3 component C) to the left; the piston rod will start to return. **IT IS EXTREMELY IMPORTANT TO RETURN THE OPERATING PRESSURE TO MINIMUM USING THE KNOB ON THE GAUGE.** Once the rod has fully returned the press will stop; now set the switch to position 0 and disconnect the machine from the power supply.

d) **UNLOADING THE PRESSED PRODUCT**

- 1 Disconnect the power supply.
- 2 Open the cage using the hooks and remove the two half-cages.
- 3 Remove the pressed product.
- 4 Replace the 2 half cages and insert the hooks.

A new pressing cycle can now be started.

4 NORMAL MAINTENANCE

The Tico press does not require any special maintenance; nonetheless, careful cleaning using warm water and mild, non-toxic detergents is recommended before use. This operation must also be performed carefully before using the machine for the first time.

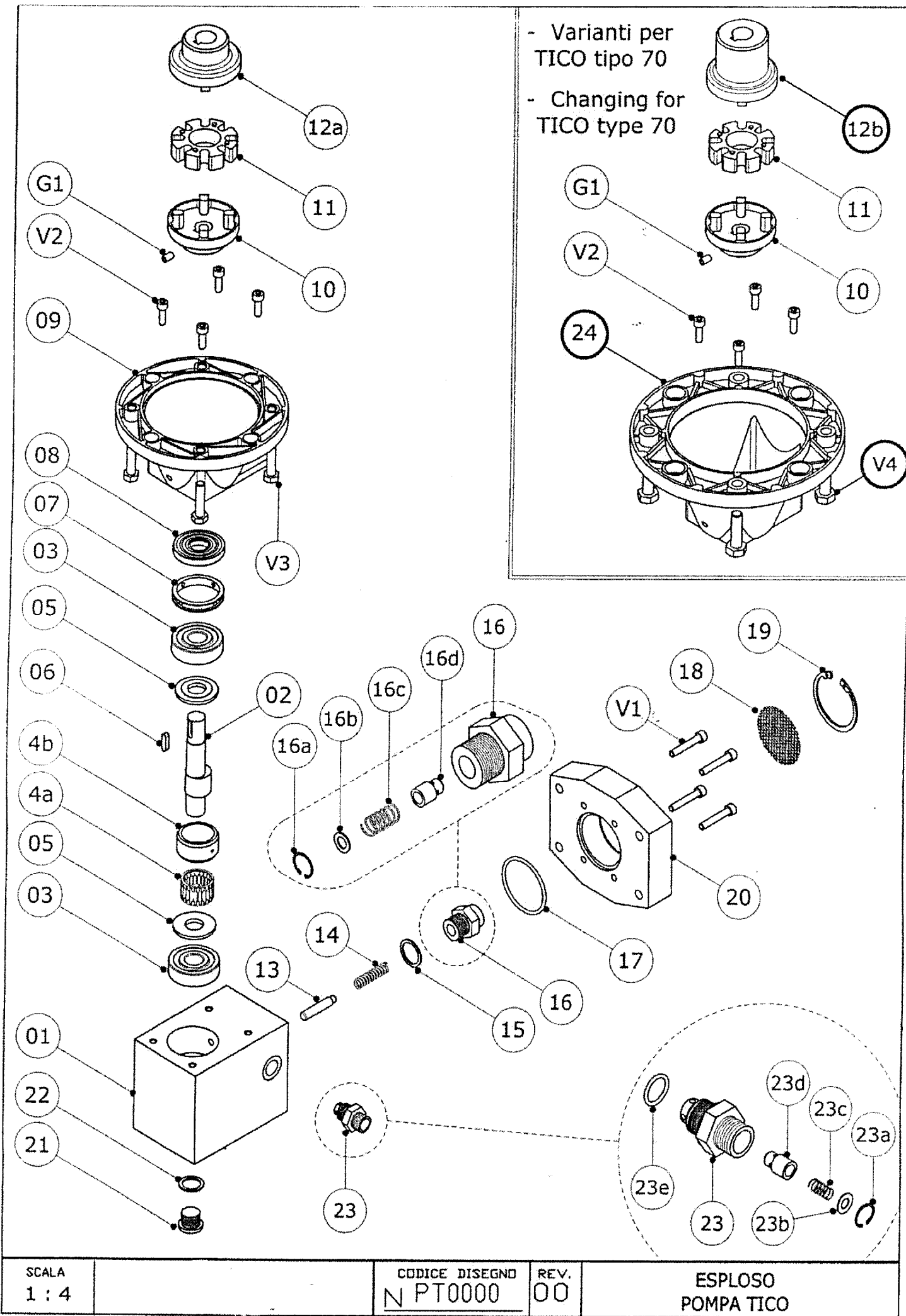
We would remind you that the press has an electric system and therefore must not be stored in damp places, as this could cause damage to the electric power unit or to the motor.

The noise produced by the machine when operating is below 70 decibels.

If you have any complaints please contact your supplier or the manufacturer.

TROUBLESHOOTING:

If after following all the instructions the motor is running but the pump will not pump oil, slight pressure must be produced inside the oil tank by blowing air through the cap located on top of the tank column (this is the column to which the pump is attached). By continuing for about 10/15 seconds, the pressure in the tank should prime the pump. This problem can occur due to an air bubble forming between the plunger and the suction and delivery valves; by blowing into the tank the oil is forced to start to circulate and the air bubble is eliminated.



LIST OF PUMP COMPONENTS

1. Pump body
2. Pump shaft
3. Ball bearing type 6303
4. Roller bearing 29F10-942A
5. Washers
6. Tab
7. Perforated spacer for shim adjustment
8. Grommet 47-17-7
9. Lantern
10. Half-joint pump side Ø ext. 62 mm hole Ø 16 mm
11. Elastic coupling for joint Ø 62 mm
12. Half-joint motor side Ø ext. 62 mm (HP 1 = Ø 19 mm – HP 2 = Ø 24 mm)
13. Plunger Ø 10 mm
14. Plunger spring Ø 10 x 40 mm
15. Copper washer 3/8"
16. Suction valve 1/2"
17. O-Ring gasket 155
18. Filter
19. Elastic safety ring type I Ø 60 x 2 mm
20. Flange
21. Cap 3/8" type GC
22. Distributor delivery cap 1/4" type GC
23. Spring cap 1/4"
24. Delivery valve spring
25. Ball bearing 1/4"

FIG.1

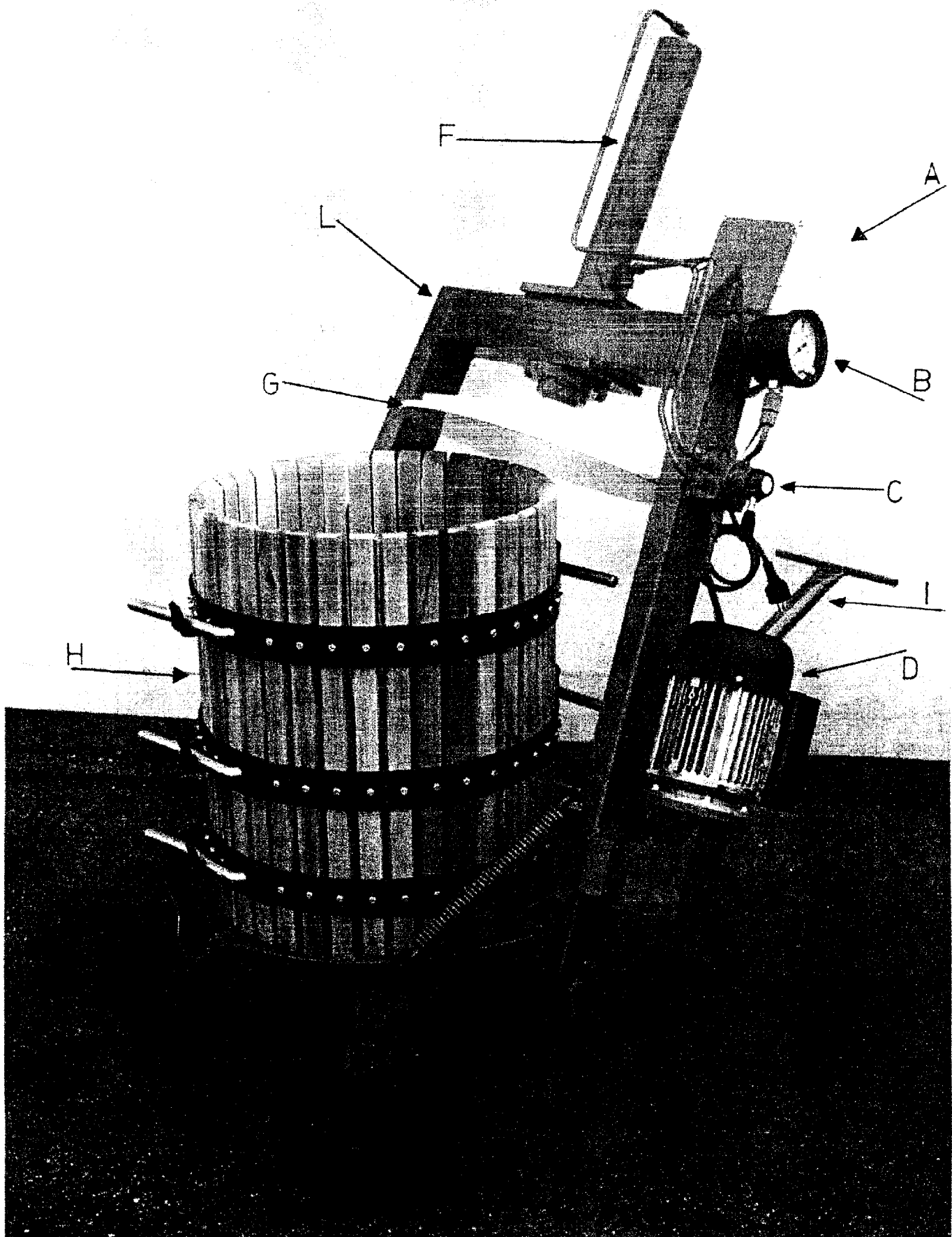


FIG. 2

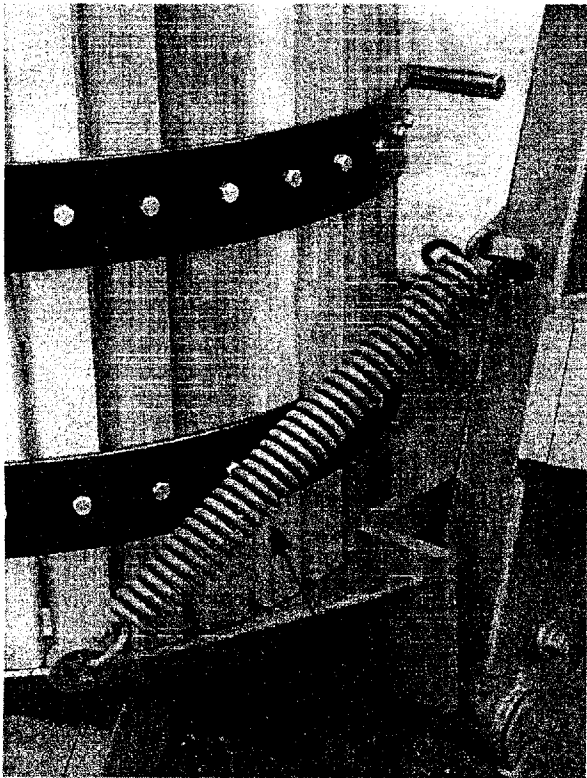


FIG. 3

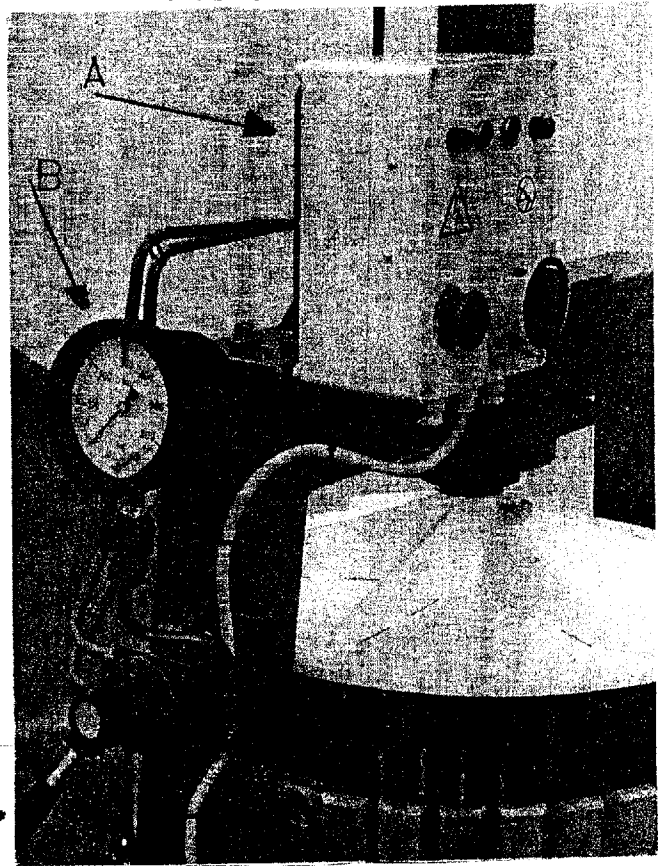


FIG. 4

