

Owner's manual

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**Répétition Souveraine**

A unique design based on an exclusive mechanism\_

F.P.JOURNE  
Invenit et Fecit



## Répétition Souveraine

A World Premiere with the ultra flat Minute Repeater\_

The minute repeater is certainly, after the Grande Sonnerie, the second most sophisticated complication of all horological creation. I wanted to construct a minute repeater like no other. An innovative and unheard of horological construction was necessary for the realization of this ultra flat minute repeater thick of only 4.00mm.

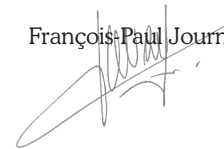
By looking at it, one would never guess the complicated mechanism hidden behind the simple silver guilloché dial with its blued steel hands. Identical to that of the Chronomètre Souverain, the dial barely let foresee the discrete window placed between 9 and 10 o'clock, featuring the hammers striking the gongs at the hour, the quarters and the minutes. They are activated by pulling an indented slide, delicately placed on the left side of the case at 10 o'clock. All indication on the dial are for the first time marked in deep blue, reminding the colour of the blued steel hands.

With a height of 8.80 mm, the steel case of the Répétition Souveraine is slightly thicker of 0.40 mm than that of the Chronomètre Souverain. The Répétition Souveraine is without comparison with the Sonnerie Souveraine, as they have very little in common, if it is for the specific gongs (that have granted a patent) and the steel used for the case. If the Sonnerie Souveraine was as difficult to construct as climbing the Himalaya, the Minute Repeater would compare as climbing the Mont-Blanc. The turning point in the creation of the Répétition Souveraine was to make a Minute Repeater that would leave a significant mark in the history of horological science. With its thickness of 4.00 mm, the Répétition Souveraine is like a Chronomètre Souverain, bearing the same chronometric characteristics, for barely more than a mere 0.35mm.

Originally created at the beginning of the 18th century, the repeater made it possible to hear the time during the night by activating a pusher on the side of the case, striking gongs at the hours, the quarters and the minutes. To create this type of mechanism, one has to start with a blank page and forget all that exists, integrate this entirely new repeater mechanism in a case exceptionally realised in steel, as it is the metal that convey at best the gong vibrations. An extraordinary challenge as this watch is water resistant.

While the Répétition Souveraine calibre shares its technical heritage with the Chronomètre Souverain, the sheer complexity of the minute repeater integrates nearly twice the number of components in the same space.

François-Paul Journe



Technical development

An ultra flat Minute Repeater\_

The invention of a minute repeater mechanism thick of 4 mm that can enable the transmission of sound through a water-resistant case.

F.P. Journe is continually searching to invent and craft timepieces which are both innovative and practical. The combination of these requirements creates the Répétition Souveraine for that ultra flat minute repeater.

After the Sonnerie Souveraine, the Répétition Souveraine is the most complex and sophisticated of the collection Souveraine, one that demands the very utmost watchmaking technical ability.

### **\_Unique patented Répétition Souveraine mechanism**

Two key technical developments have enabled F.P. Journe to construct a sweet sounding ultra-flat repeater movement.

The first concerns the flat gongs, similar to those of the Sonnerie Souveraine, producing a louder and clearer sound than traditional gongs. And because the gongs are mounted under the dial, instead of being traditionally placed around the movement, they allow more room for the mechanism and to settle in their environment.

The second is an innovative system of striking racks and strike selection mechanisms which take up much less space than conventional strike mechanisms.

The Répétition Souveraine is using the same hammer to strike the hours and the minutes. A pause is automatically inserted between the hour and the minute chimes when there are no quarters. The quarters sound with classic double chimes. An inertia regulator controls the speed of the chimes, thus eliminating the background noise usually associated with traditional air regulators.

The incomparable style of F.P. Journe has sometime been copied, but his highly inventive technique is far more difficult to duplicate.

### **\_Case**

There is one metal that resonates sound better than any other and that metal is steel. In his typical no-compromise style, F.P. Journe places performance and function above all. So it is only natural that the case of the Répétition Souveraine be also in steel such as that of the Sonnerie Souveraine, for a better transmission of sound.

### **\_Movement**

The movement is manually wound, with base-plates and bridges in 18K rose gold. Twin barrels work in parallel to deliver stable power for most of their 56-hour indicated reserve. The free-sprung balance, with variable inertia adjustment on four opposing weights, oscillates at 21'600 v/h.

## Operating instructions

### Crown\_

#### **Winding:**

Keep the crown on position **1** and turn forwards until it stops.

As in antique marine chronometers, the power reserve indicator shows the number of hours elapsed since the watch was last wound.

#### **Setting the time:**

Pull the crown out to position **2** and turn towards you to set the correct time.  
It is strongly recommended not to turn the hands anti-clock wise.

#### **Please note!**

Push the crown back to position **1** for the watch to work.

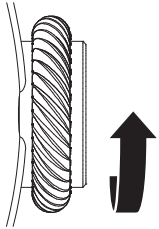
### Slide bar\_

Push all the way until it blocks, and release.

The visible hammer strike the hours, and after a pause, it strikes the minutes from 1 to 14.

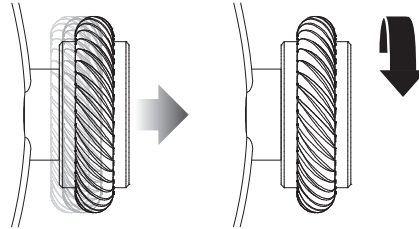
The quarters strike on two hammers between the hours and the minutes.

1



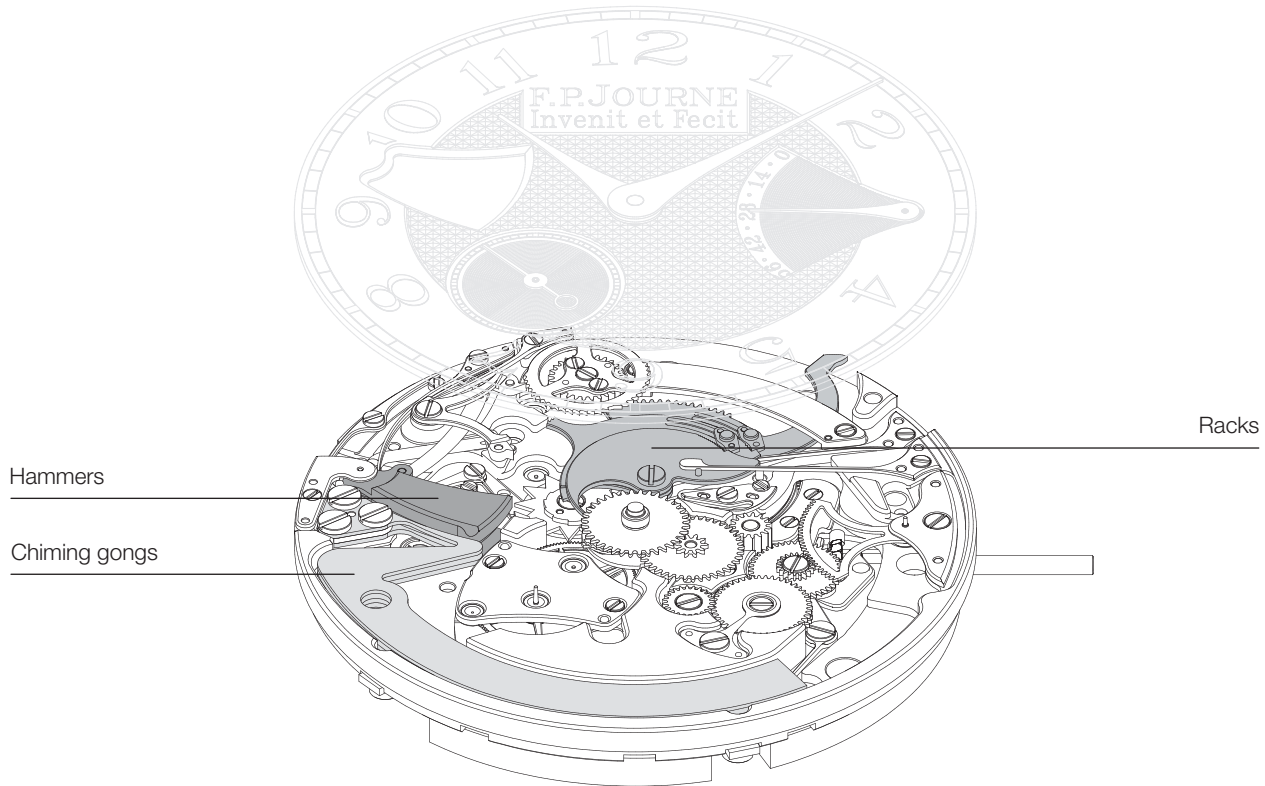
Position  
Winding

2

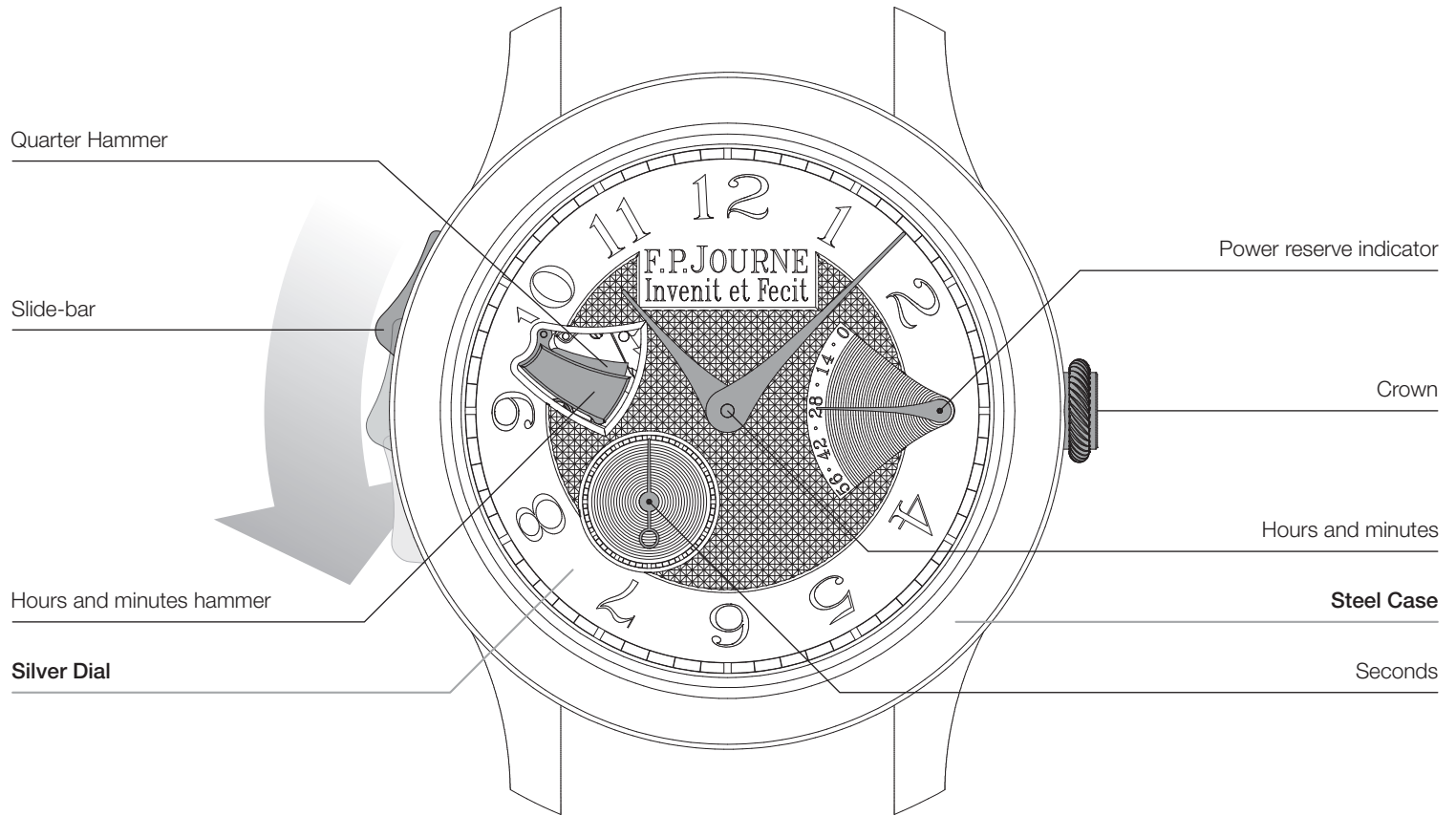


Position  
Time setting

**Mechanism Répétition Souveraine**  
Patented system\_







## Specifications

<b>Movement_</b>	Calibre 1408 Manually wound by 38 turns Movement in gold 33 jewels
<b>Dimensions of the Movement_</b>	Overall diameter: 32.20 mm Casing-up diameter: 31.60 mm Casing-up eight: 4.04 mm Overall height: 4.64 mm Height of winding system: 2.38 mm Diameter of stem thread: S0.90 mm
<b>Balance_</b>	Four inertia weights Spiral Anachron Mobile stud holders Free sprung Laser soldered balance spring Pinned GE stud Frequency: 21,600 v/h, (3Hz) Inertia: 10.10 mg/cm <sup>2</sup> Angle of lift: 52° Amplitude: 0h dial up: ± 320° 24h dial up: ± 280°
<b>Principal characteristics_</b>	Minute repeater strike on demand Time adjustment via crown in position 2 Repeater activated by single slide Linear escapement with 15 tooth escape wheel Two position crown Two mainspring barrels in parallel

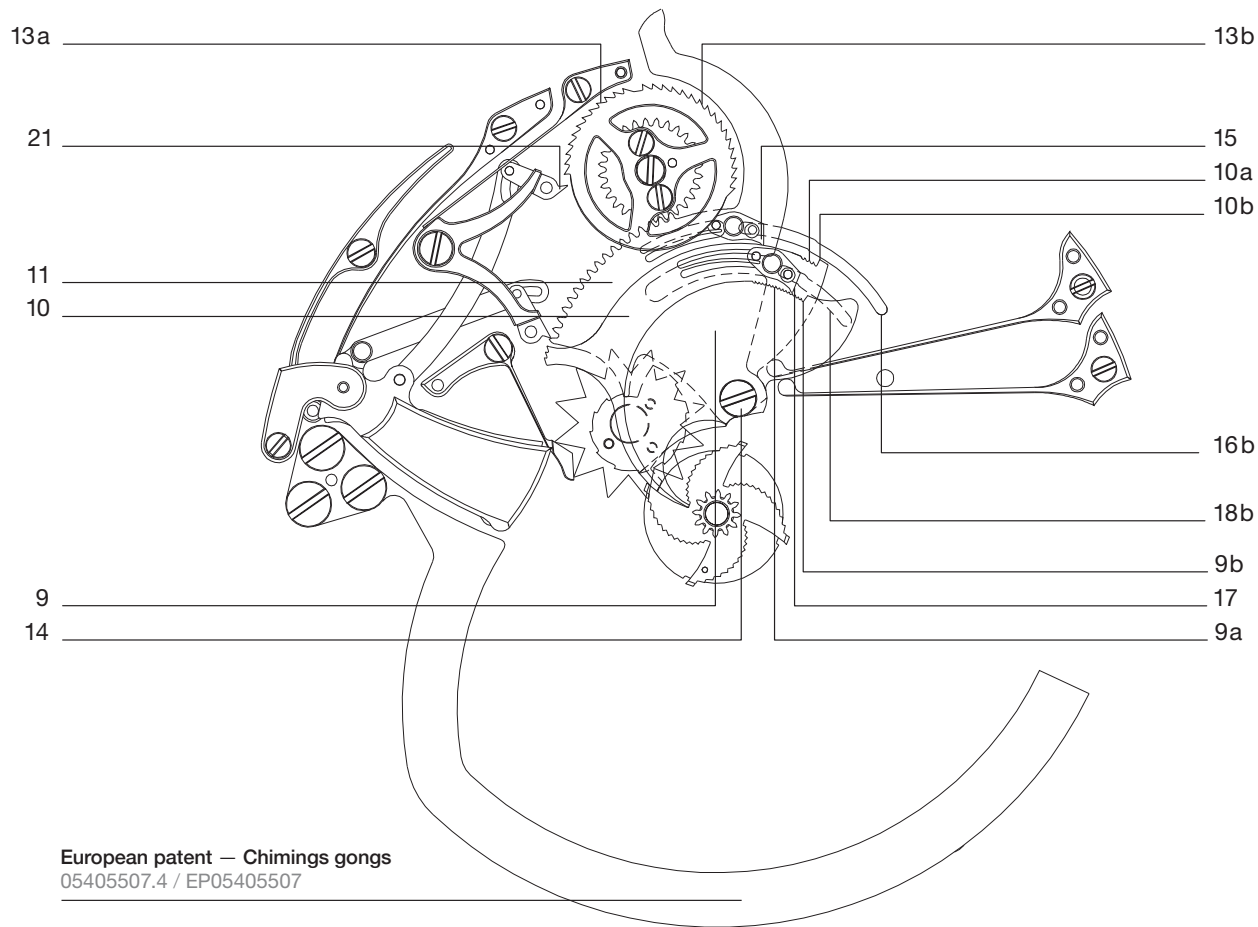
<b>Indications_</b>	Central hours and minutes Sub-second at 7h30 Power reserve at 3h00 View to striking hammers
<b>Power reserve_</b>	56 hours ± 2h.
<b>Decoration_</b>	Circular grained baseplate Straight waves on bridges 3D engraving Screw heads polished and bevelled Pegs with polished rounded ends Steel components hand polished and decorated
<b>Case_</b>	Stainless Steel Diameter: 40.00 mm Height: 8.60 mm
<b>Number of Pieces_</b>	Movement without dial: 320 Cased-up on leather strap: 364

Répétition Souveraine

**European patent — EP 08405096.2**  
**Minute Repeater**

The hour (11), quarter-hour (10) and minute racks (9) of the minute-repeater all pivot around a common axis (14). On the one hand, the hour (11) and the quarter-hour racks (10); and on the other, the quarter-hour (10) and the minute racks (9) are linked by a unidirectional system with a click (15, 17), a ratchet wheel (10a, 9a) that engages with the click, a banking device (10b, 9b) and a cam (16b, 18b) that selectively controls the click's engagement (15-17) with the teeth (10a, 9a).

The extremity of the mainspring is kinematically connected to two separate toothed segments of the same wheel (13a, 13b) that initially activate the striking work (21). The first segment (13a) strikes the hours, and the second (13b) strikes the quarters and minutes.



## Maintenance\_

A maintenance cleaning is required **every four years** to preserve the precision of the watch.

## Important\_

Keep the original warranty card supplied with your wristwatch carefully. Your authorized **F.P. JOURNE** retailer will need this identity card for any after-sales servicing. For all maintenance or repair, your wristwatch must be entrusted only to an appointed **F.P. JOURNE** agent.

## Warranty\_

Your **F.P.Journe - Invenit et Fecit** watch is covered by a warranty against any manufacturing flaws for a period of **2 years** as of the date of purchase appearing on the back of the warranty card or certificate. The warranty is valid only on presentation of the original card or certificate, duly filled out by the authorised retailer (serial number, date of purchase, retailer's stamp). The warranty does not cover normal wear or damage resulting from abnormal use of the watch, accidents or alterations.

## Warranty extension\_

If your **F.P.Journe - Invenit et Fecit** watch was purchased at an **F.P.Journe Boutique**, your watch is automatically covered for a period of **3 years** as of the date of purchase appearing on the back of the warranty card or certificate. If your watch was purchased at an **authorized retailer**, we kindly invite you to register on <https://customerservice.fpjourne.com/en/guarantee> during the 30 days following the initial date of purchase to benefit from **an additional year of warranty**.