

934018



PATENT SPECIFICATION

DRAWINGS ATTACHED

934018

Date of Application and filing Complete Specification: Feb. 13, 1962.

No. 5413/62.

Application made in Switzerland (No. 1871) on Feb. 16, 1961.

Complete Specification Published: Aug. 14, 1963.

© Crown Copyright 1963.

Index at acceptance:—Class 139, TA2(B:C).

International Classification:—G04b.

COMPLETE SPECIFICATION

Watch Glass

We, ENICAR S.A., a Swiss Company, of Longeau, Bienne, Switzerland, do hereby declare the invention, for which we pray that a patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following statement:—

This invention relates to watch glasses, and provides a watch glass having a thickened rim or flange portion wherein is a circumferential groove which opens to one side of the glass and effectively divides the flange into two defined parts, namely an outer part which serves for the fitting of the glass into a watch case and an inner part surrounded by the outer part, the wall of the groove defining the outer extent of the inner part of the flange being faceted and inclined relative to the confronting wall of the groove which defines the inner extent of the outer part of the flange.

The invention will be described further, by way of example, with reference to the accompanying drawings which illustrate two embodiments of the invention, and wherein:—

Fig. 1 is a partial axial section showing a first embodiment of the watch glass, mounted in a bezel;

Fig. 2 is a fragmentary plan view corresponding to Fig. 1, the section of Fig. 1 being indicated by the line 1—1; and

Fig. 3 is a partial axial section showing a second embodiment of watch glass, in its bezel.

The arrangement illustrated in Fig. 1 comprises a bezel 1 into which a watch glass 2 is forced. The flange of the glass 2 is effectively divided into two defined parts 2a and 2b by an annular groove 3 which opens on the same side as the inner concave surface 4 of the glass 2. The outer part 2a of the glass flange serves for fitting the glass 2 to the bezel 1. To this end, it is provided with an inwardly projecting reinforcing ring 5 which forms a projection on such outer part 2a.

The groove wall or surface 6 of the part 2b

of the glass flange which defines the outer extent of the inner part 2b of the flanges and faces the outer part 2a has facets 7 and 8 of triangular shape and is inclined relative to the confronting wall of the groove 3 which defines the inner extent of the outer part 2a of the flange.

With this arrangement, rays of light entering the glass 2 are reflected by the facets 7, 8. The concavity of the inner surface 4 of the glass 2 is chosen such that light entering the glass 2 from above as viewed in Fig. 1 and reflected by the facets 7, 8 is subsequently also reflected by the inner surface 4 so as to emerge through the opposite surface of the glass 2, namely the surface by which it entered.

The embodiment shown in Fig. 3 differs from that shown in Figs. 1 and 2 principally in that the glass, which is denoted by reference numeral 9, has a bevelled edge which snaps into a corresponding recess in the bezel, which is denoted by reference numeral 10. The flange of the glass is divided into two defined parts 9a and 9b by an annular groove 11; the outer surface of the part 9b is faceted at 7 and 8 and is inclined as in the previous embodiment.

The glass according to the invention differs from known faceted glasses in which the facets are either external—which is not suitable for watch glasses of synthetic material which is of inadequate strength and the facets of which are subject to wear, scratch or blur—or internal on an inner rim that they have for this purpose, beneath the glass retaining catch,—which undesirably increases the height of the glass.

WHAT WE CLAIM IS:—

1. A watch glass having a thickened rim or flange portion wherein is a circumferential groove which opens to one side of the glass and effectively divides the flange into two defined parts, namely an outer part which serves

[Price 4s. 6d.]

934018



PATENT SPECIFICATION

DRAWINGS ATTACHED

934018

Date of Application and filing Complete Specification: Feb. 13, 1962.

No. 5413/62.

Application made in Switzerland (No. 1871) on Feb. 16, 1961.

Complete Specification Published: Aug. 14, 1963.

© Crown Copyright 1963.

Index at acceptance:—Class 139, TA2(B:C).

International Classification:—G04b.

COMPLETE SPECIFICATION

Watch Glass

We, ENICAR S.A., a Swiss Company, of Longeau, Bienne, Switzerland, do hereby declare the invention, for which we pray that a patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following statement:—

This invention relates to watch glasses, and provides a watch glass having a thickened rim or flange portion wherein is a circumferential groove which opens to one side of the glass and effectively divides the flange into two defined parts, namely an outer part which serves for the fitting of the glass into a watch case and an inner part surrounded by the outer part, the wall of the groove defining the outer extent of the inner part of the flange being faceted and inclined relative to the confronting wall of the groove which defines the inner extent of the outer part of the flange.

The invention will be described further, by way of example, with reference to the accompanying drawings which illustrate two embodiments of the invention, and wherein:—

Fig. 1 is a partial axial section showing a first embodiment of the watch glass, mounted in a bezel;

Fig. 2 is a fragmentary plan view corresponding to Fig. 1, the section of Fig. 1 being indicated by the line 1—1; and

Fig. 3 is a partial axial section showing a second embodiment of watch glass, in its bezel.

The arrangement illustrated in Fig. 1 comprises a bezel 1 into which a watch glass 2 is forced. The flange of the glass 2 is effectively divided into two defined parts 2a and 2b by an annular groove 3 which opens on the same side as the inner concave surface 4 of the glass 2. The outer part 2a of the glass flange serves for fitting the glass 2 to the bezel 1. To this end, it is provided with an inwardly projecting reinforcing ring 5 which forms a projection on such outer part 2a.

The groove wall or surface 6 of the part 2b

of the glass flange which defines the outer extent of the inner part 2b of the flanges and faces the outer part 2a has facets 7 and 8 of triangular shape and is inclined relative to the confronting wall of the groove 3 which defines the inner extent of the outer part 2a of the flange.

With this arrangement, rays of light entering the glass 2 are reflected by the facets 7, 8. The concavity of the inner surface 4 of the glass 2 is chosen such that light entering the glass 2 from above as viewed in Fig. 1 and reflected by the facets 7, 8 is subsequently also reflected by the inner surface 4 so as to emerge through the opposite surface of the glass 2, namely the surface by which it entered.

The embodiment shown in Fig. 3 differs from that shown in Figs. 1 and 2 principally in that the glass, which is denoted by reference numeral 9, has a bevelled edge which snaps into a corresponding recess in the bezel, which is denoted by reference numeral 10. The flange of the glass is divided into two defined parts 9a and 9b by an annular groove 11; the outer surface of the part 9b is faceted at 7 and 8 and is inclined as in the previous embodiment.

The glass according to the invention differs from known faceted glasses in which the facets are either external—which is not suitable for watch glasses of synthetic material which is of inadequate strength and the facets of which are subject to wear, scratch or blur—or internal on an inner rim that they have for this purpose, beneath the glass retaining catch,—which undesirably increases the height of the glass.

WHAT WE CLAIM IS:—

1. A watch glass having a thickened rim or flange portion wherein is a circumferential groove which opens to one side of the glass and effectively divides the flange into two defined parts, namely an outer part which serves



* C L M S *

8

for the fitting of the glass into a watch case and an inner part surrounded by the outer part, the wall of the groove defining the outer extent of the inner part of the flange being
5 faceted and inclined relative to the confronting wall of the groove which defines the inner extent of the outer part of the flange.

2. A watch glass as claimed in claim 1
10 wherein the said one side of the glass is concave.

3. A watch glass as claimed in claim 2
15 wherein the angle of said wall of the groove defining the outer extent of the inner part of the flange is such that light entering the glass from the other side of the glass, namely the side remote from the concave side, is reflected both by said wall and the concave side

to emerge from said other side of the glass.

4. A watch glass as claimed in claim 1, 2
20 or 3 wherein the outer flange part is provided with an inwardly projecting reinforcing ring.

5. A watch glass as claimed in claim 1, 2
25 or 3 wherein the outer flange part is adapted to snap into a watch bezel.

6. A watch glass substantially as hereinbefore described with reference to and as illustrated in Figs. 1 and 2 or Fig. 3 of the accompanying drawings.

For the Applicants:—

BARLOW, GILLET & PERCIVAL,
Chartered Patent Agents,
94, Market Street, Manchester, 1, and
93, Chancery Lane, London, W.C.2.

JLC

Leamington Spa: Printed for Her Majesty's Stationery Office, by the Courier Press
(Leamington) Ltd.—1963. Published by The Patent Office, 25 Southampton Buildings,
London, W.C.2, from which copies may be obtained.

Secretary of State, including the drawing forming part thereof, to be a true
copy of the original as accepted

13 FEB 1964

For Seal

Acting for Comptroller.

The Patent Office, 25, Southampton Buildings, LONDON, W. C. 2.

