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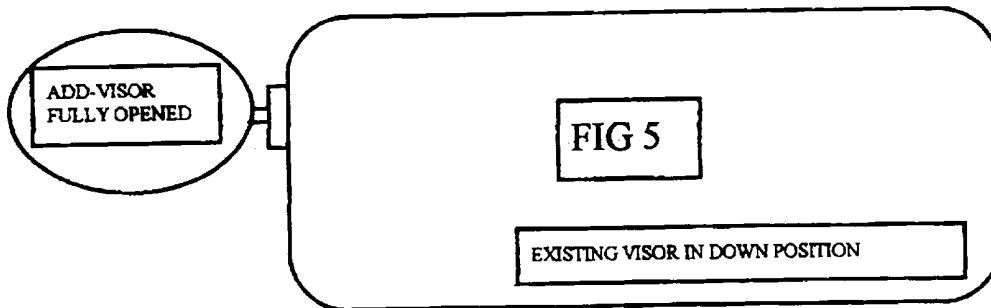
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(56) Documents Cited
GB 2329167 A **GB 2321629 A** **GB 2309678 A**
GB 2232136 A **GB 2173461 A** **GB 2094248 A**
US 5580117 A

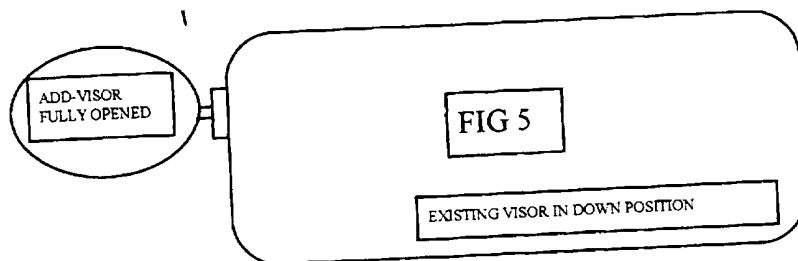
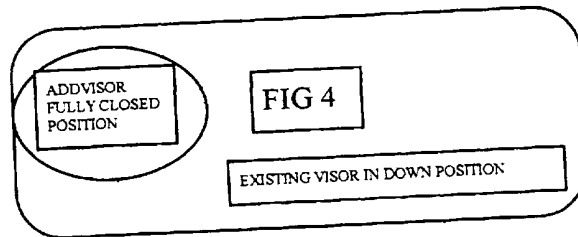
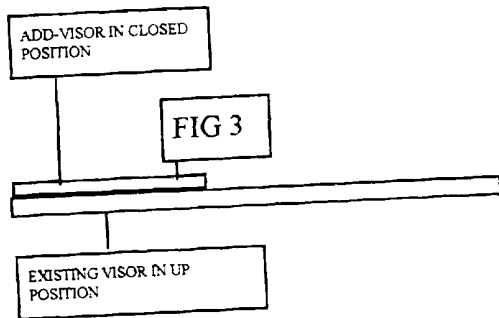
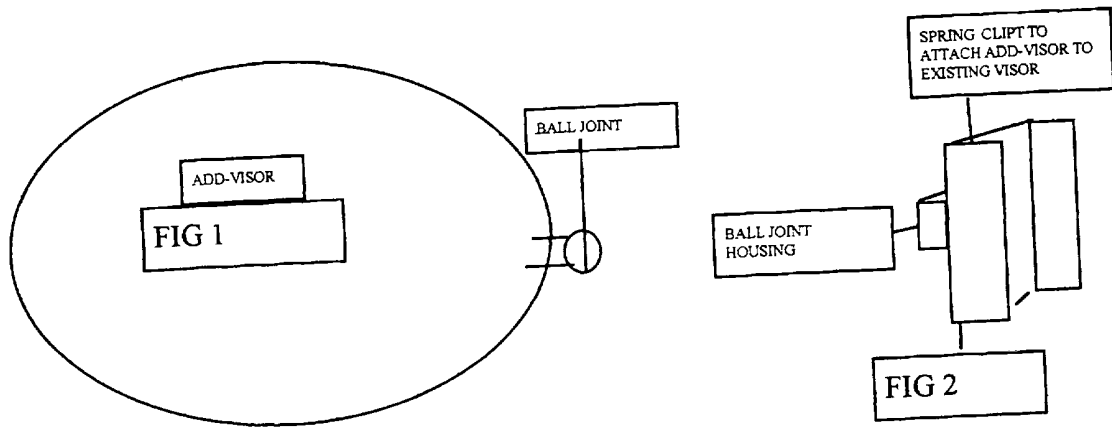
(58) Field of Search
UK CL (Edition Q) **B7J J63**
INT CL⁶ **B60J 3/02**

(54) Abstract Title
Visors for vehicles

(57) An additional visor is attached via a spring clip and ball joint to an existing vehicle visor. Two such additional visors may be attached to both ends of the existing visor. Spectacles comprising the additional visor are also disclosed.



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THE INVENTION RELATES TO ADDITIONAL VISORS

VISORS ARE WELL KNOWN AS DEVICES TO PROTECT FROM GLARE OR OTHER OBSTRUCTIONS TO VISION. THIS INVENTION RELATES PARTICULARLY TO SUN VISORS IN VEHICLES. THE MAIN VISOR AT PRESENT IN USE TRADITIONALLY PROTECTS TO THE FRONT AND OFF SIDE, THIS HOWEVER LEAVES A VULNERABLE POINT TO THE DRIVERS NEAR SIDE, AND WHEN THE MAIN VISOR IS DEPLOYED TO THE OFF SIDE THIS TENDS TO CREATE GLARE TO THE FRONT.

ACCORDING TO THE PRESENT INVENTION, THERE IS PROVIDED A UNIT OR UNITS, COMPRISING A MAIN COMPONENT IN THE FORM OF A UNIVERSALLY ADJUSTABLE ADDITIONAL VISOR WITH A CRANKED BALL JOINT FIXING(OR ANY SUITABLE ALTERNATIVE) FIG 1 . THIS IN TURN FIXES TO A SECOND COMPONENT FIG 2 WHICH IS A SPRING CLIP (OR ANY SUITABLE ALTERNATIVE) ALLOWING THE ADDITIONAL VISOR TO BE FIXED TO THE MAIN VISOR. THIS CONFIGURATION ALLOWS THE ADDITIONAL VISOR TO FOLD FLAT ON TOP OF THE MAIN VISOR WHEN NOT REQUIRED FIG 3.

THE ADDITIONAL VISOR MAIN COMPONENT ALSO APPLIES TO A NEWLY MANUFACTURED SUN VISOR WHICH WOULD BE EMBODIED AT BOTH ENDS, GIVING TWO WAY PROTECTION, HINGING WOULD BE DIFFERENT. THE SAME WOULD APPLY TO A MAIN COMPONENT BEING APPLIED TO SPECTACLES, SUNGLASSES AND THE LIKE. A SPECIFIC EMBODIMENT OF THE INVENTION WILL NOW BE DESCRIBED BY WAY OF EXAMPLE, WITH REFERENCE TO THE ACCOMPANYING DRAWING.

FIG 1 SHOWS THE MAIN COMPONENT AND CRANKED BALL JOINT.

FIG 2 SHOWS THE SPRUNG CLIP WHICH WILL HAVE THE HOUSING FOR THE BALL JOINT.

FIG 3 SHOWS THE ADDITIONAL VISOR FOLDED AWAY, IN RELATION TO THE MAIN VISOR IN THE UP POSITION.

FIG 4 SHOWS THE ADDITIONAL VISOR FOLDED AWAY, IN RELATION TO MAIN VISOR IN THE DOWN POSITION, ADDITIONAL VISOR NOT DEPLOYED.

FIG 5 SHOWS THE ADDITIONAL VISOR DEPLOYED AND FULLY OPEN, IN RELATION TO A MAIN VISOR IN THE DOWN POSITION.

REFERRING TO THE DRAWING, THE ADDITIONAL VISOR COMPRISES THE MAIN COMPONENT FIG1, AND THE SECOND COMPONENT FIG 2 , A SPRUNG CLIP WHICH EASILY ATTACHES ITSELF TO A MAIN VISOR ON A TEMPORARY OR PERMANENT BASIS. ALTERNATIVE FIXING ARRANGEMENTS ARE AVAILABLE IF REQUIRED, FOR EXAMPLE NUT AND BOLT, RIVET, ADHESIVE OR SIMILAR MEANS (NOT SHOWN). ADVANTAGE WOULD BE GAINED FROM FIXING

ADDITIONAL VISOR TO EITHER END OF A MAIN VISOR.

IN ORDER TO POSITION THE ADDITIONAL VISOR IN PLACE, THE MAIN VISOR IS LOWERED, AND ADDITIONAL VISOR IS CLIPPED IN POSITION, REPRESENTED IN FIG 4

THE MAIN COMPONENT CAN THEN BE MOVED INTO AN INFINITE NUMBER OF POSITIONS FIG 5 TO BLOCK THE EFFECT OF BLINDING OR GLARING SUNLIGHT, HEADLIGHT GLARE THROUGH THE REAR MIRROR CAN BE ELIMINATED AND STILL ALLOW THE USE OF THE REAR VIEW MIRROR, GLARE FROM INTERIOR LIGHTS CAN BE ELIMINATED AND DRIVING CAN TAKE PLACE SAFELY AND COMFORTABLY WITH LIGHT ON. TO STOW AWAY REVERSE PROCEDURE FIG3.

IN A NEWLY MANUFACTURED SUN VISOR, AN ADDITIONAL MAIN COMPONENT WOULD BE INTEGRALLY FITTED TO BOTH ENDS AS IN FIG 5 PLUS AN ADDITIONAL VISOR ON THE OPPOSITE END ALSO.

CLAIMS

1. A SUPPLEMENTARY VISOR DEVICE WHICH COMPRISES A VISOR MEMBER AND MOUNTING MEANS FOR MOUNTING THE VISOR MEMBER TO THE MAIN VISOR, THE MOUNTING MEANS BEING ARRANGED SO THAT THE VISOR MEMBER IS LOCATED TO PROTECT AGAINST GLARE.

2. A VISOR AS CLAIMED IN 1 IN WHICH THE MOUNTING MEANS IS ARRANGED SO THAT THE VISOR MEMBER CAN BE MOVED BETWEEN A STORAGE POSITION SUCH THAT THE VISOR MEMBER IS LOCATED ADJACENT THE MAIN VISOR AND OPERATIVE POSITIONS IN WHICH THE VISOR MEMBER PROTECTS AGAINST GLARE.

3. A VISOR AS CLAIMED IN CLAIM 1 OR CLAIM 2 COMPRISING TWO SUPPLEMENTARY VISOR DEVICES ONE BEING LOCATED AT THE FIRST END OF THE MAIN VISOR AND THE OTHER BEING LOCATED AT THE SECOND END OF THE MAIN VISOR.

4. A VISOR AS CLAIMED IN ANY ONE OF CLAIMS 1 TO 3 IN WHICH THE MOUNTING MEANS COMPRISES A BALL AND SOCKET JOINT, OR JOINT OF SUITABLE CONFIGURATION TO ALLOW UNIVERSAL MOVEMENT HAVING BEEN CLIPPED TO THE MAIN VISOR.

5. A VISOR AS CLAIMED IN ANY PRECEDING CLAIM IN WHICH THE MOUNTING MEANS A SPRING CLIP FOR ATTACHMENT TO THE MAIN VISOR.

6. A VISOR AS SUBSTANTIALLY AS HEREINBEFORE DESCRIBED WITH REFERENCE TO THE ACCOMPANYING DRAWINGS.

7. A SUPPLEMENTARY VISOR DEVICE COMPRISES A VISOR MEMBER AND MOUNTING MEANS FOR USE ON A VISOR ACCORDING TO ANY CLAIM.

8. A VISOR DEVICE FOR USE WITH A PAIR OF SPECTACLES COMPRISES A VISOR MEMBER AND MOUNTING MEANS FOR MOUNTING THE VISOR MEMBER TO A PAIR OF SPECTACLES, THE MOUNTING MEANS BEING ARRANGED SO THAT THE VISOR MEMBER IS LOCATABLE TO PROTECT AGAINST GLARE.

9. A VISOR DEVICE AS CLAIMED IN 8 IN WHICH THE MOUNTING MEANS COMPRISES A BALL AND SOCKET JOINT, OR JOINT OF SUITABLE CONFIGURATION TO ALLOW UNIVERSAL MOVEMENT HAVING BEEN CLIPPED TO A PAIR OF SPECTACLES

10. A VISOR DEVICE AS CLAIMED IN CLAIM 8 OR CLAIM 9 IN WHICH THE MOUNTING MEANS COMPRISES A SPRING CLIP FOR ATTACHMENT TO A PAIR OF SPECTACLES.

11. A PAIR OF SPECTACLES, SUN GLASSES OR THE LIKE COMPRISES A VISOR DEVICE ACCORDING TO ANY ONE OF CLAIMS 8 TO 10.



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Application No: GB 9804619.6
Claims searched: 1-7

Examiner: Keith Kennett
Date of search: 11 June 1999

**Patents Act 1977
Search Report under Section 17**

Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:
UK Cl (Ed.Q): B7J (J63)
Int Cl (Ed.6): B60J 3/02
Other:

Documents considered to be relevant:

Category	Identity of document and relevant passage	Relevant to claims
X	GB 2329167 A (RILEY) see whole document	1,2,5,7
X	GB 2321629 A (DAVIES) see Figures 1 & 5	1,2,5,7
X	GB 2309678 A (PAYNE) see Figure 1 and page 3 lines 6-16	1,4,5,7
X	GB 2232136 A (RUSSELL) see whole document	1,2,4,5,7
X	GB 2173461 A (PINK) see Figure 4	1,2,3,7
X	GB 2094248 A (HAWTAL) see Figure 2	1,2,3,7
X	US 5580117 (GOCLOWSKI) see Figure 2	1,2,4,5,7

X	Document indicating lack of novelty or inventive step	A	Document indicating technological background and/or state of the art.
Y	Document indicating lack of inventive step if combined with one or more other documents of same category.	P	Document published on or after the declared priority date but before the filing date of this invention.
&	Member of the same patent family	E	Patent document published on or after, but with priority date earlier than, the filing date of this application.