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(71) Applicant(s)  
**Steve Paul Foley**  
**39 Taylor Drive, MANNINGTREE, Essex, CO11 2HU,**  
**United Kingdom**

(72) Inventor(s)  
**Steve Paul Foley**

(74) Agent and/or Address for Service  
**Steve Paul Foley**  
**39 Taylor Drive, MANNINGTREE, Essex, CO11 2HU,**  
**United Kingdom**

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**G4H HTE H1A**  
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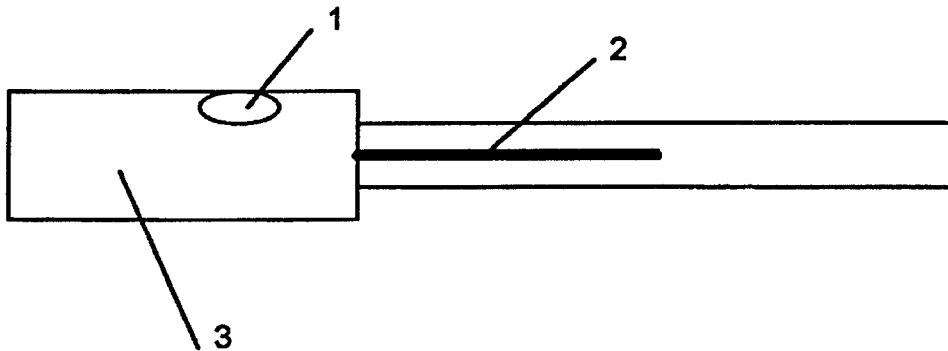
(56) Documents Cited  
**WO 94/05380 A1**

(58) Field of Search  
UK CL (Edition M ) **G4H HTE**  
INT CL<sup>5</sup> **A63B , G08B**

(54) **Referee link system**

(57) The referee link system will consist of two linesman's transmitter flags (Fig 1) and one referee receiver. The flags will comply to league standard, but will have a simple transmit button (1) fitted along with the necessary circuitry in the flag handle (3) and an antenna (2) in the flag post. The referee receiver will contain an audio/sensory device to indicate contact from the flag transmitter. The receiver will be in the format of a wrist band or clip on pack.

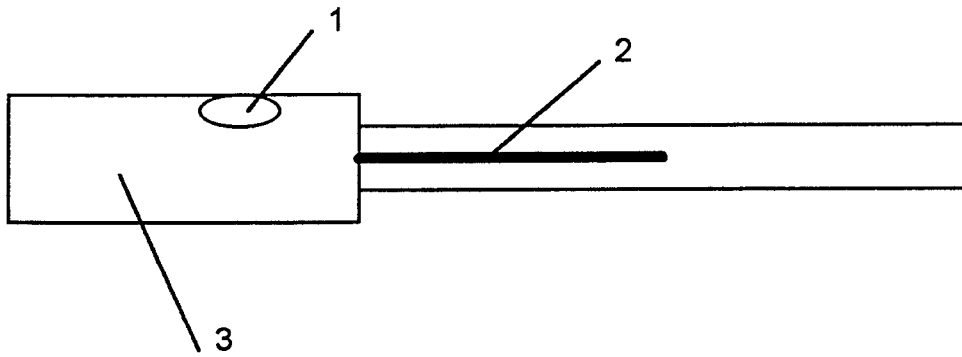
**Fig 1**



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Fig 1



**REFEREE LINK SYSTEM**

This invention relates to a referee link system

The referee link system is intended to assist in the level of contact between a referee and his linesmen. With this system in use it should allow faster reaction from the referee to his linesmen during the game. By the simple use of recognisable audio/sensory contacts the referee's attention should be drawn to a linesman almost immediately a decision is given or an incident spotted. The system is intended to be in use at all levels of football, but the designer recognises its implementations in other sports.

The system will utilise a linesman's flag with transmit button. The transmit system will be mounted in the handle of the flag and the ariel will fit in the flag post. The referee will have either a wrist band or clip on receiver containing an audion sensory device which is activated by the flag transmit button.

A specific example follows with reference to the accompanying drawing in which

Figure 1 shows a simple drawing of the linesman's flag.

1) The Flags - these can be seen in the simple diagram (Fig 1). The transmit unit will be fitted into the handle(3), along with the necessary battery power and the ariel(2) will be contained in the main flag stick. There will be a simple button(1) in the handle which, when depressed, will transmit an audio/sensory signal to the referee receiver. Each flag in a set can transmit a completely different audio/sensory signal so that the referee can easily detect which linesman to look too. The transmit button will be recessed so that it cannot easily be pressed by accident while running.

2) The referee receive unit - this will consist of a wrist strap or clip on unit. The unit will allow him to hear or feel the signal produced by the transmit flags.

Battery power for both units will be self contained.

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**CLAIMS**

- 1 A referee link system comprising two linesman's transmit flags and one referee receive pack. For use by the officials in any suitable sports match.
- 2 A referee link system as in Claim 1 wherein the linesman's transmit flags come upto the necessary league/competition standard.
- 3 A referee link system as in Claim 1 and Claim 2 wherein the referee receive unit contains an audio/sensory device to recognise communication from the transmit device.
- 4 A referee link system as claimed in any preceding claim, wherein the frequency of operation is selectable.

**Relevant Technical Fields**

- (i) UK Cl (Ed.M)      G4H (HTE)
- (ii) Int Cl (Ed.5)    G08B, A63B

**Databases** (see below)

- (i) UK Patent Office collections of GB, EP, WO and US patent specifications.
- (ii)

Search Examiner  
 M J DAVIS

Date of completion of Search  
 13 DECEMBER 1994

Documents considered relevant following a search in respect of Claims :-  
 1-4

**Categories of documents**

- X:** Document indicating lack of novelty or of inventive step.
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Category	Identity of document and relevant passages	Relevant to claim(s)
X	WO 94/05380 A1 (GARCIA ET AL) whole document	1 at least

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