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Re: method to prevent the “phantom goal”.

With the present letter I want to draw to your attention the system I designed and tested to eliminate the phantom goal.

This is due to the rebound of the ball at the bottom of the crossbar and the ground.

After several and all documented tests I was able to delete permanently the occurrence of the event, always at the center of controversy, cause of unjust verdicts, arbitration awards and discussed final results of several matches, including some of them of international level.

The proposed system does not use any kind of technological means, electronic or mechanical, excluded from the current applicable regulations.

This system consists in a small change to the ground behind the goal line, creating a slight slope.

In the attached pages it is explained in details the type of intervention to be carried out on the playground.

Hoping in your attention I remain at your disposal for all the tests and for every further information you may require.

Yours sincerely

***Bakraoui Said***

## **The cause of the problem**

When the ball hits the crossbar at the bottom in many cases the next trajectory is directed inside the goal.

The ball turning on itself reaches the ground and goes out the goal instantly.

The ball, with a shot from a target distance, goes at about 25 meters per second .

The rebound over the crossbar and the contact with the ground is in less than one tenth of a second!

Because of the short time in which the event occurs, a true and correct assessment by the arbitrator on the exact position of the ball in the moment of the contact with the ground cannot be possible.

No human eye has this ability, especially in bad conditions of visibility, distance and angulations. An only beating of the cilia is enough not to catch the fundamental instant!

Nowadays only the electronic instruments (video cameras, detectors, etc.) can exactly determine the point of contact of the ball with the ground.

However these electronic aids are not applicable during the matches, even if they are refined and absolutely sure, being excluded as methods to evaluate and to judge by the current regulations of the game.

The television shot in slow motion in post- game has always been the main source of controversies, disputes, disagreements and disappointments.

Anyway this can never change the fate of the final result, even if unjust, always and only given by the referee.

## **The solution**

If a slope of the ground between 10% and 20% is fixed over the goal line, the ball at the contact with the ground will move naturally, according to the physical law of gravity, towards the inside of the goal.

The exact percentage of the slope must still be decided by the International Federation.

According to the tests carried out, the ball goes rolling in the opposing direction to the firing trajectory after the contact with the crossbar.

The contact with the sloping ground changes the direction of rotation and the final trajectory of the ball towards the inside of the goal.

The system proposed certainly puts an end to all doubts and controversies, always ensuring the regularity of the result, avoiding serious and dangerous errors to the referee (i.e. during the 1966 and 2010 World Cup Championship, played between England and Germany).

Referees can then focus more on the game and the public can enjoy a real live goal without any further surprise found by these electronic technologies.

This method neither creates any complications with the regulation force, nor overlaps or restricts the use of additional control technologies.

The modified part of the ground is not an active area during the match so it is irrelevant to the proper conduct of the game.

It is also a very environmentally friendly solution, simple and inexpensive to realize, suitable for all the kind of playgrounds and for all the football categories.

