May 30, 1933. H. W. TONEY 1,911,408

COMBINATION GUN PORT AND SPEAKING APERTURE

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Fig. 1

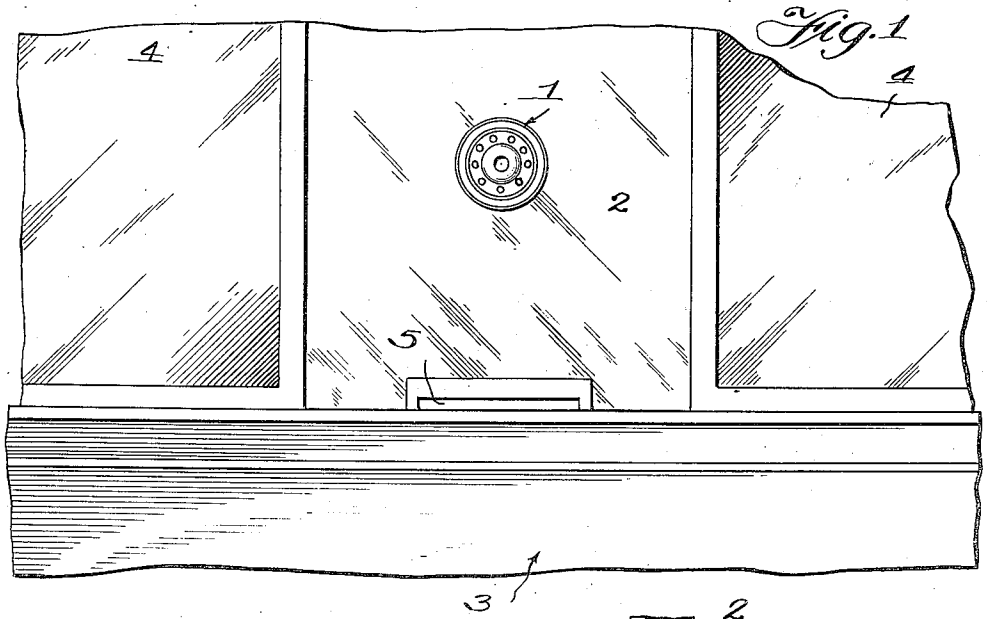


Fig. 2

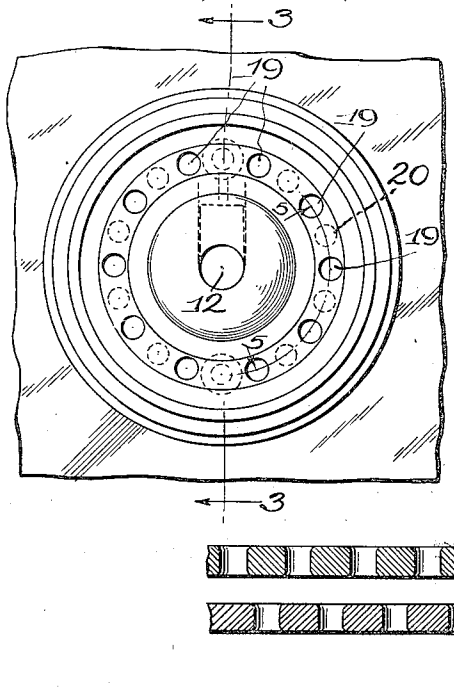


Fig. 5

Fig. 3

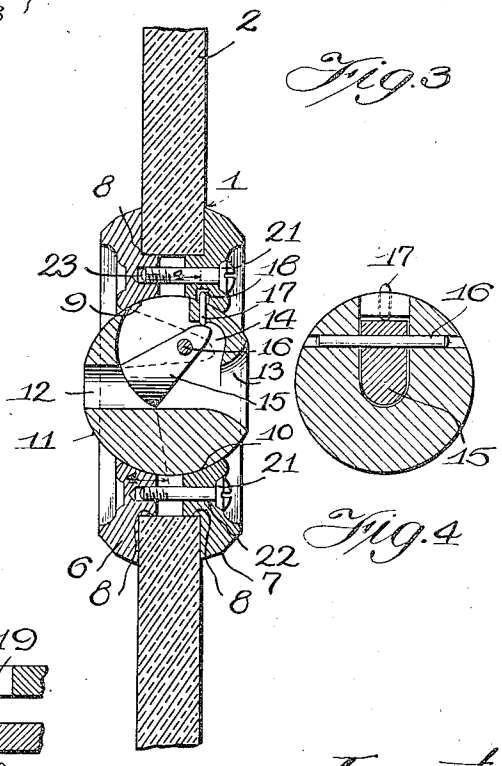


Fig. 4

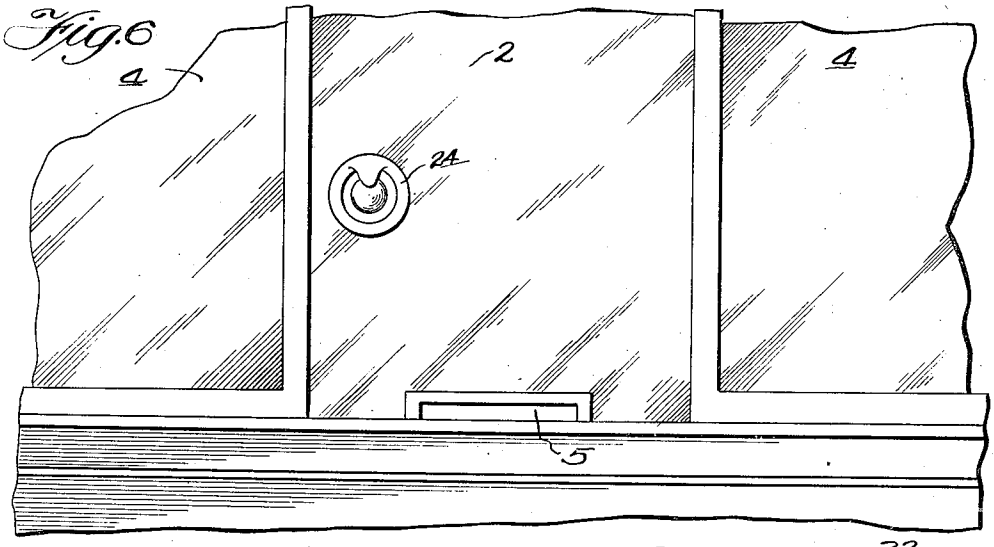
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COMBINATION GUN PORT AND SPEAKING APERTURE

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Fig. 6



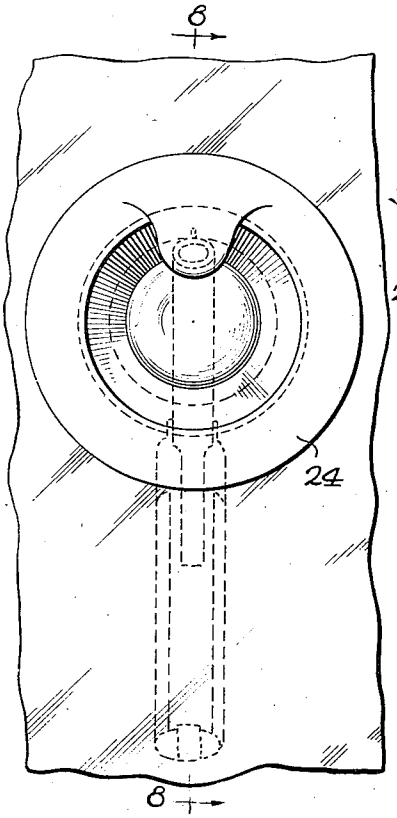


Fig. 7

Fig. 9

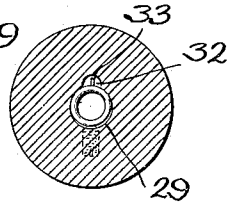


Fig. 8

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COMBINATION GUN PORT AND SPEAKING APERTURE

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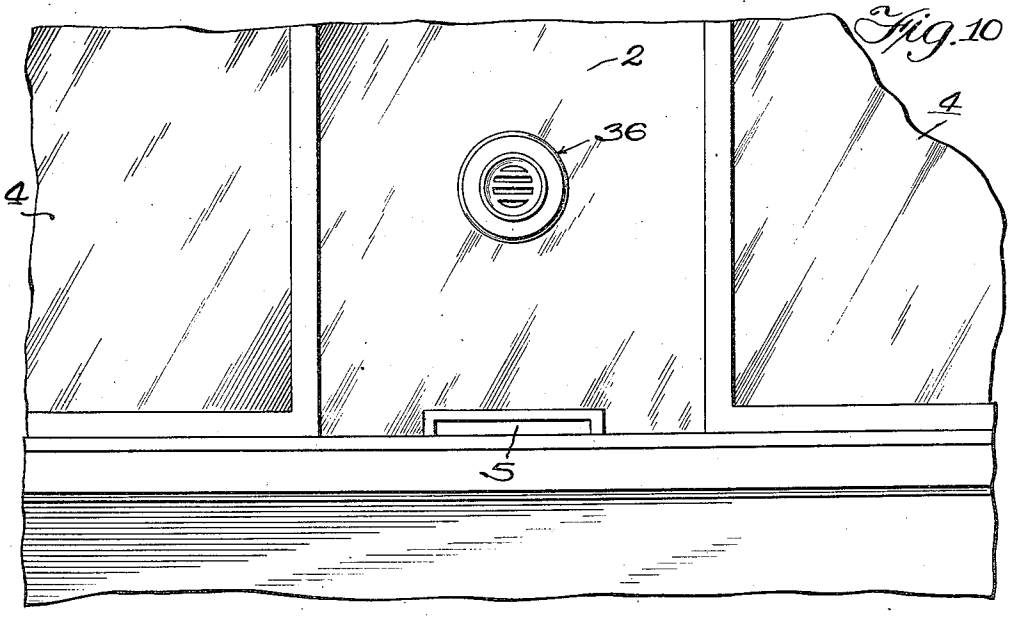


Fig. 10

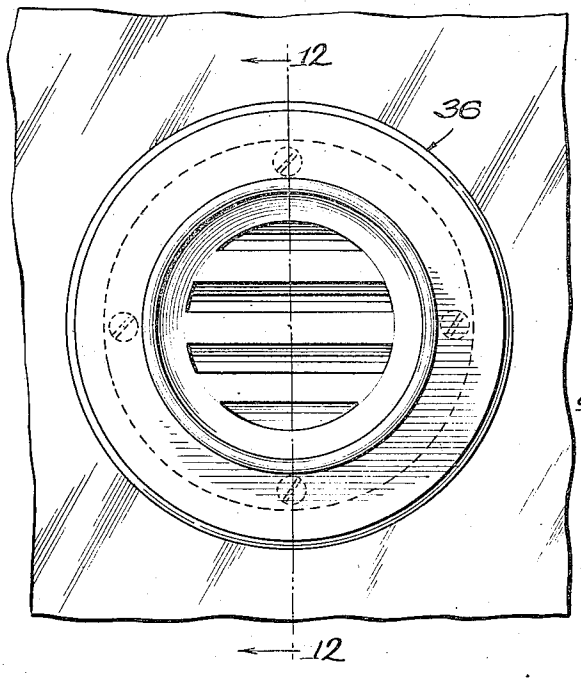


Fig. 11

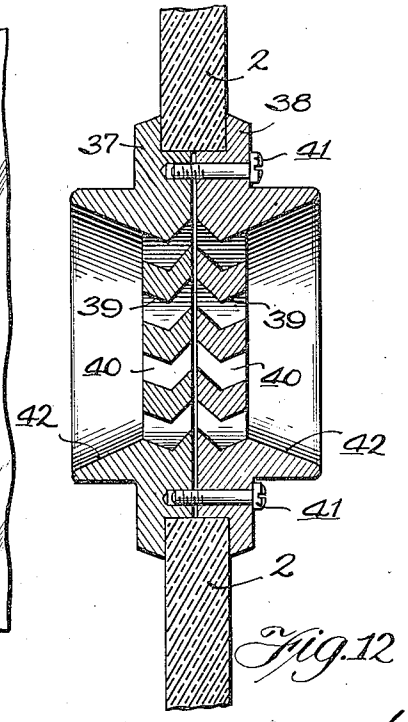


Fig. 12

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Patented May 30, 1933 1,911,408

UNITED STATES PATENT OFFICE

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COMBINATION GUN PORT AND SPEAKING APERTURE

Application filed May 23, 1931. Serial No. 539,547.

The present invention relates to novel improvements in a combination gun port and speaking aperture and more particularly to a protective device adapted to be mounted in a bullet-proof partition or enclosure.

Among the objects of the invention is to provide an efficient protective means for banking institutions or other places where money and/or valuables are kept, but permitting a conversation to be carried on freely by persons on opposite sides of the partition or enclosure.

A further object is to provide a novel protective device located in a bullet-proof partition whereby transactions may be readily carried on and conversation established, but preventing access to the person and/or valuables on the opposite side of the partition. The invention comprehends the employment of a counter or partition attachment adapted to be mounted in the partitions or cages provided for tellers or other officers or employees, as in banks, accounting houses, or similar places where valuables are retained and dealt with, or in armored cars used for transporting valuables, which attachment permits communication between persons on opposite sides of the partition and also permits passage of such valuables from one side of the partition to the other in the normal course of business, but prevents a person or persons on the exterior to have access to the interior thereof.

A still further object is to provide a protective device so constructed as to permit a person within the cage or other enclosure, or behind the partition, to open fire upon those in front of the enclosure or partition, without danger to himself. This construction and arrangement is especially valuable in cases of attacks by robbers which usually take place when least expected. By the present embodiment, the person within the enclosure is at all times protected and ready for such an attack.

Another object is the provision of a novel gun mounting which permits universal movement of a gun placed or mounted therein from the inside of the enclosure or partition, and prevents a gun from being placed therein from the outside, as well as prevents a bullet from being fired therethrough.

Still another object is to provide a novel construction of speaking aperture which is mounted in the enclosure or partition at approximately the height of an average person so that conversation may be carried on therethrough, but so constructed that the inside of the enclosure is not accessible to a person on the other side, and bullets fired thereagainst cannot pass therethrough into the interior. This construction eliminates the ordinary wicket structure now so prevalent in banking or other institutions where money or other valuables are kept or dealt with.

Another object is the provision of a novel combination gun port and speaking aperture adapted to be mounted within a bullet-proof partition or enclosure, so that transactions may be carried on without danger to the person or valuables within such enclosure.

Further objects are to provide a construction of maximum simplicity, efficiency, economy and ease of assembly and operation; and such further objects, advantages, and capabilities as will later more fully appear and are inherently possessed thereby.

The invention further resides in the combination, construction, and arrangements of parts illustrated in the accompanying drawings, and while there is shown therein a preferred embodiment, it is to be understood that the same is susceptible of modification and change, and comprehends other features and constructions, without departing from the spirit of the invention.

In the drawings:

Fig. 1 is a fragmentary view in front elevation of a teller's cage or other enclosure provided with an embodiment of the invention.

Fig. 2 is an enlarged view in front elevation of the invention and disclosing the means of mounting the same in a partition.

Fig. 3 is a view in vertical cross section taken in a plane represented by the line 3—3 of Fig. 2.

Fig. 4 is a view in vertical cross section taken on the line 4—4 of Fig. 3.

Fig. 5 is a fragmentary cross sectional view taken on the line 5—5 of Fig. 2.

Fig. 6 is a fragmentary view in front elevation of a partition provided with a modified construction of gun port and mounting therefor.

Fig. 7 is an enlarged view of the gun port and mounting shown in Fig. 6.

Fig. 8 is a view in vertical cross section taken on the line 8—8 of Fig. 7, the gun mounted therein being disclosed in side elevation.

Fig. 9 is a cross sectional view taken on the irregular line 9—9 of Fig. 8.

Fig. 10 is a fragmentary view in front elevation of a modified form of speaking aperture mounted in the partition.

Fig. 11 is an enlarged view of the speaking aperture disclosed in Fig. 10.

Fig. 12 is a view in vertical cross section taken in a plane represented by the line 12—12 of Fig. 11.

Referring more particularly to the disclosure in the embodiment disclosed in Figs. 1 to 5 inclusive of the drawings, the novel combined gun port and speaking aperture designated generally by the numeral 1 is mounted within a glass or transparent partition 2 in a cage or enclosure 3 provided for a teller, officer or other employee in a bank or other institution where money or other valuables are kept or dealt with. The partition 2 as well as the partitions 4 are constructed of bullet-proof glass or other transparent material to prevent bullets fired from the exterior of the cage or enclosure from passing therethrough.

In order to permit the normal transaction of business, the partition 2 is provided with an opening 5 of sufficient depth to permit the passage of money or papers therethrough, but insufficient to permit a person on the exterior from having access to the interior of the cage. If desired, a bullet proof shutter or sliding partition may be provided to close the opening 5 whenever desired, so that there is no access to the interior whenever there is danger of a robbery or an attack.

As more fully disclosed in Fig. 3 of the drawings, the combination gun-port and speaking aperture comprises annular members 6 and 7 each provided with an interiorly shouldered portion 8 adapted to receive the bullet-proof glass partition 2, it being understood that the same is provided with an opening adapted to receive the shouldered portions 8 of the members 6 and 7. The exterior member 6 is provided with an inner circumferential curved or arcuate portion 9 while the interior member 7 is provided with a similar portion 10 whereby to receive and maintain a spherical gun mount 11, the surface of the same providing with the arcuate portions 9 and 10, a universal mounting whereby the spherical member 11 may be rotated into various positions.

The member 11 is provided with a central opening 12 having a flared inlet 13 whereby to readily receive and guide the barrel of a gun placed therein. An irregularly shaped opening 14 communicates with the opening 12. In this opening 14 is mounted a closure 15 which is pivotally mounted upon a pin 16. This pivot 16 is adjacent one end of the closure 15 so that the weight of the closure member is unequally distributed, the same being disclosed as wedge-shaped or substantially triangular in shape when viewed in a side elevation as in Fig. 3 of the drawings. By this construction and mounting, the member 15 will always drop into closed position so as to close the port 12. However, when the teller, officer, or other employee inserts a gun into the opening 12, this closure will be raised into its dotted line position as shown in Fig. 3. This raising of the member 13 is readily accomplished since the side against which the gun impinges is tapered, and but a slight pressure upon the barrel of the gun is necessary to raise the closure.

In order to prevent free rotation of the spherical member or ball 11 when no gun is mounted in the port 12, this member is locked in non-rotating position by means of a pin 17 seating within an opening 18 in the inner annular member or plate 7. When a gun is placed in the port 12 and forced therethrough so as to raise the closure 15, this pin 17 which bears against an end of the closure, drops from its interlocking position and permits free rotation of the spherical member 11 in this mounting.

In order to permit communication between persons on opposite sides of the partition 2, the members or plates 6 and 7 are provided with openings, the openings 19 in the outer member being staggered with relation to the opening 20 in the inner member so that no bullets may pass therethrough. These openings 19 and 20 are annularly arranged and spaced apart a distance corresponding to the spacing of the members or plates 6 and 7 so that there is but little impedance to the voice when passing therethrough.

In order to maintain the members or plates 6 and 7, and the sphere or ball 11 in position, screws or other retaining means 21 are provided. These screws pass through openings 22 in the inner plate member 7 and seat in threaded openings 23 in the outer plate member 6. As the heads of the screw members are on the interior of the partition, they cannot be tampered with from the outside thereby eliminating any danger of removal of the gun port and speaking aperture from the exterior.

With reference to the construction disclosed in Figs. 6 to 9 inclusive, the construc-

tion therein set forth comprises an outer or face plate 24 and an inner plate or member 25 adapted to receive a ball or sphere 26 which forms a mounting for a gun 27, the barrel 28 of which seats within an opening 29 and is maintained therein by means of a set screw 30 in a threaded opening 31 in the ball or sphere. The opening 29 connects with a longitudinally extending opening 32 above the barrel of the gun so as to permit the sight 33 thereof to be visible over the top of the gun. The inner circumference of the annular plates and members 24 or 25 is such that they provide a socket for the ball or sphere 26 and permit free rotation of the ball or sphere therein, so as to provide a universal or ball and socket connection. Screw members 34 connect the plates together and by reason of the screws being operable from only within the partition or enclosure, the same cannot be removed or tampered with from the exterior.

A guard 35 normally covers the end of the barrel of the gun from the view of the public, the weight of the gun being sufficient to turn the ball or sphere into the position shown in Fig. 8 whenever the gun is not being used. If it is desired that the public not see the gun, a metal guard or a cloth may be used to cover the same, or the portion of the transparent partition 2 adjacent the gun may be colored or painted to hide the gun from view of the public.

Although this form of construction is not disclosed as provided with openings for the transmittal of sound in order to permit efficient communication between persons on opposite sides of the partition, it is to be understood that openings similar to those provided in Figs. 1 to 5 inclusive, may be provided herein. Furthermore, it is to be understood that the openings forming the speaking aperture in Figs. 1 to 5 inclusive may be omitted if so desired.

In Figs. 10 to 12 inclusive is disclosed a construction of speaking aperture 36 adapted to be mounted in a bullet-proof partition 2 and so constructed as to prevent bullets from being fired therethrough, but permitting communication between persons on opposite sides of the partition. This speaking aperture comprises plates or members 37 and 38 positioned on opposite sides of the partition, these plates being of similar construction. Each is provided with irregularly shaped cross bars 39 adapted to provide a tortuous passage 40 from one to the other side of the partition whereby sound may be transmitted and communication carried on, but the structure preventing the firing of a bullet therethrough, or the passage of a gun or other instrument between the bars 39. Screws 41 connect the plates 37 and 38, these screws, as in the previous constructions, being inserted from the interior of the cage or enclosure to prevent the same from being removed by one on the opposite or outside of the partition. By reason of the flared side or annular flanges 42 of these plates, they provide an efficient amplifying means.

From the above description and the disclosure in the drawings, it will be readily seen that I have provided a novel construction of gun port and speaking aperture which can be readily and efficiently mounted in the partitions now being employed in the cages or enclosures used in banks, or other institutions where monies, securities, and valuables are kept. This construction likewise is adapted for use in cages or lookouts in which guards are maintained to keep watch to prevent attack by robbers, or it may be employed in armored cars where the bullet proof glass or transparent partition may be supplanted by metal plates. The metal fittings and mountings of the gun port and speaking aperture may be of any suitable material adapted for such use.

Having thus disclosed the invention, I claim:

1. A protective device adapted to be mounted in a partition, comprising a spherical member provided with a gun port therethrough, a mounting for said member permitting universal movement thereof, and a closure within said member for said gun port.

2. A protective device adapted to be mounted in a partition, comprising a spherical member provided with a gun port therethrough, a mounting for said member permitting universal movement thereof, and a pivoted closure within said member for closing said gun port to the exterior.

3. A protective device adapted to be mounted in a partition, comprising a spherical member provided with a port therethrough, a mounting for said member permitting universal movement thereof, and a pivoted closure within said member for automatically closing said port to the exterior and maintaining said port closed except when a gun or other member is inserted into said port from the interior of the partition.

4. A protective device adapted to be mounted in a partition, comprising a member provided with a port therethrough, a mounting for said member permitting universal movement thereof, a closure for said port, and means operated by said closure for locking said member in a predetermined position.

5. A protective device adapted to be mounted in a partition, comprising a member provided with a port therethrough, a mounting for said member permitting universal movement thereof, a pivoted closure for said port, and a pin associated with

said closure for locking said member in a predetermined position when the closure is in its closed relation.

6. A protective device adapted to be mounted in a partition, comprising a spherical member provided with a port therethrough, a mounting for said member permitting universal movement thereof, a pivoted closure for said port, and means operated by said closure for locking the member against rotation.

7. A protective device adapted to be mounted in a partition, comprising a pair of spaced plate members, a spherical member provided with a port and mounted in an opening in said plate members whereby said spherical member has universal movement, said plate members being provided with openings permitting conversation to be carried on between persons on opposite sides of said partition.

8. A protective device adapted to be mounted in a partition, comprising a pair of spaced plate members, a spherical member provided with a port and mounted in an opening in said plate members whereby said spherical member has universal movement, said plate members being provided with staggered openings permitting conversation to be carried on between persons on opposite sides of said partition, but preventing the passage of a bullet therethrough.

9. A protective device adapted to be mounted in a partition, comprising a pair of spaced plate members, a spherical member provided with a port and mounted in an opening in said plate members whereby said spherical member has universal movement, said plate members being provided with openings spaced around the spherical member but the openings in one plate being in staggered relation with the openings in the other plate whereby to prevent the passage of bullets through said plate members but permitting conversation to be carried on by persons on opposite sides of the partition.

In witness whereof I hereunto subscribe my name to this specification.

HENRY W. TONEY.