July 22, 1952 F. J. HAVEL 2,604,147

CHAIR WITH REMOVABLE ARMREST

Filed Sept. 15, 1948

Fig. 1

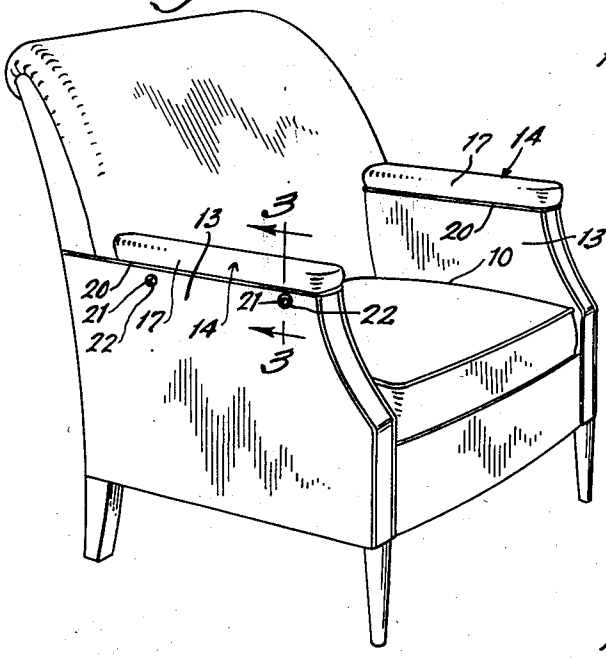


Fig. 2

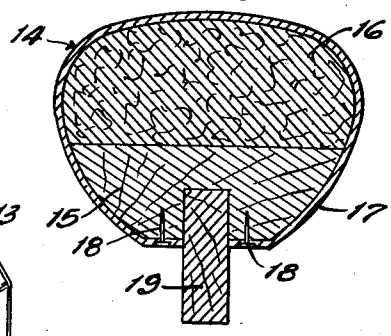


Fig. 3

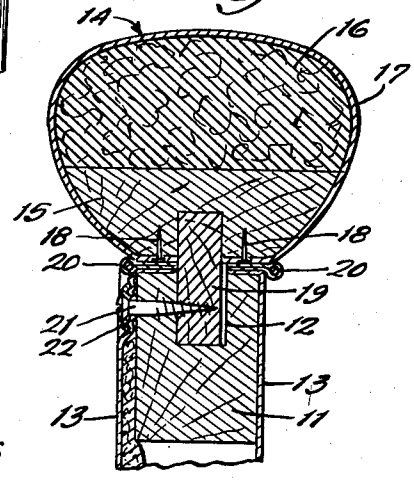
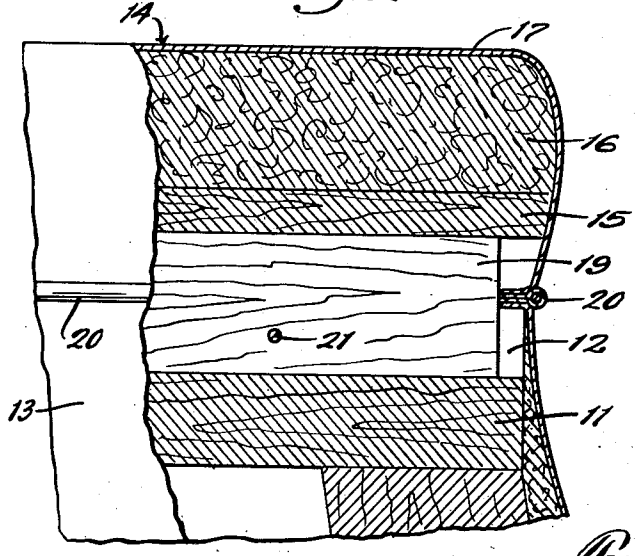


Fig. 4



Inventor:
Frank J. Havel,

By Dawson, Owens, Britt & Spangenberg,
Attorneys.

Patented July 22, 1952

2,604,147

UNITED STATES PATENT OFFICE

2,604,147

CHAIR WITH REMOVABLE ARMREST

Frank J. Havel, La Grange Park, Ill., assignor, by mesne assignments, to International Furniture Company, a corporation of Illinois

Application September 15, 1948, Serial No. 49,410

2 Claims. (Cl. 155—198)

1

This invention relates to a removable arm seat. The invention is applicable to all kinds of seats, including chairs, davenports, railway and other vehicle seats, etc.

In the use of upholstered furniture in which the arm rests are padded with felt, etc., the earliest wear usually appears on the arm rests and often the entire seat is discarded because of the unsightly appearance of the chair arms or rests, etc.

An object of the present invention is to provide a structure in which an upholstered arm rest is rigidly secured to the chair side rail as firmly as if the parts were permanently secured together while at the same time permitting ready removal of the arm rest for repair or for the substitution of a new arm rest. Yet another object is to provide a seat and arm-rest structure in which the arm rest can be removed in an extremely brief period and a new or repaired arm rest quickly substituted therefor, the upholstered arm rest having its covering effectively concealed and the covering for the seat about the arm also being concealed and held in the space between the arm rest and the arm rail. Yet another object is to provide a wooden structure in which wood screws can be effectively used for the locking of the arm rest to the chair rail while providing an attractive structure and one in which the removable arm rest is locked as firmly to the chair rail as though it were permanently fixed thereto. Still another object is to provide an arrangement whereby an attractive connection is made between a removable arm rest and a chair rail, all of the covering edges there-about being concealed while providing a simple means for rigidly anchoring the parts together in a releasable relation. Other specific objects and advantages will appear as the specification proceeds.

The invention is illustrated, in a single embodiment, by the accompanying drawings, in which—

Fig. 1 is a perspective view of a chair equipped with a removable arm rest in accordance with my invention; Fig. 2, a transverse sectional view on an enlarged scale of the upholstered arm rest; Fig. 3, a vertical sectional detail view on an enlarged scale, the section being taken as indicated at line 3—3 of Fig. 1; and Fig. 4, a side view in elevation and on an enlarged scale of a portion of the arm frame of the chair and the arm rest, a portion of the structure being shown in vertical section.

In the illustration given, 10 designates a seat

2

illustrated as an upholstered chair. The seat may be of any type or structure. It may be a railway seat, bus seat, davenport, etc. The specific seat illustrated is one which merely illustrates the manner in which the invention may be used.

The seat 10 is equipped with a side frame providing the usual chair rail 11 extending along the top of the side wall of the chair. The rail 11 is provided in its upper portion with a longitudinally extending recess or groove 12. It is provided with the usual seat covering 13, the edges of which are drawn over the upper portion of the rail 11, as shown best in Fig. 3.

The arm rest 14 may be of any suitable construction. I prefer to employ a rigid base member 15 which may be flared outwardly so as to provide a relatively wide support for the felt or other padding material 16. A cover 17 extends around the padding of the base 15 and may be secured to the bottom portion of the base. In the specific illustration given, the base 15 is formed of wood and tacks 18 are employed for securing the covering 17 to the bottom portion of the block or base 15. The base 15 is provided with a longitudinally extending slot which receives the anchor member or block 19. I prefer to secure the anchor 19 within the recess in the block 15 by glue but any suitable means may be employed for this purpose. With the structure, the anchor 19 extends between the edges of the covering material 17 and depends there-below.

As shown more clearly in Fig. 4, the depending anchor 19 is inserted within the recess 12 of the chair rail 11. In order to provide an attractive joint between the parts, I prefer to employ the welts 20 on either side of the anchor 19 with the roll of the welt extending along the line of junction between the arm rest 14 and the chair rail 11.

I have discovered that an extremely effective anchor is accomplished by passing a wood screw 21 through the chair rail 11 and into the anchor 19. The screw holds the flat block or anchor 19 tightly against a wall of the rail 11 so that the parts are held together with great rigidity. I prefer, also, to provide a washer 22 formed in the shape illustrated in Fig. 3 which not only enhances the appearance of the connection but also provides a spring about the screw tending to hold it fixedly in position. At the same time, the stress is distributed by the washer 22 over a relatively wide area of the covering material 13.

In the specific illustration given, two screws

and washers are employed on each side of the chair and the location of the washers near the point of junction renders them inconspicuous and not unattractive in appearance.

When the arm rest has become unattractive by reason of long use, the screws 21 can be quickly removed and a new upholstered arm rest 14 substituted for the one removed. The operation requires but a moment and the new rest is secured as rigidly to the seat as though all the seat were of new construction.

While in the foregoing specification, I have set forth a single structure in considerable detail for the purpose of illustrating one embodiment of the invention, it will be understood that the details of such structure may be varied widely by those skilled in the art without departing from the spirit of my invention.

I claim:

1. In combination with a seat equipped with an arm rail having a longitudinal groove in its upper portion, an arm rest consisting of a rigid base provided with a groove adapted to be aligned with the groove in said arm rail, a rigid anchor extending into the groove of said base and rigidly secured therein by glue, said anchor having a depending rib received freely within the groove of said rail, padding material on said base, a covering about said padding and said base and having its edge portions extended between the base and the rail, a covering for said arm rail having its end portions extended between said base and the top of said rail, means securing the covering of said padding and base to the bottom of said base, and screw means extending through said arm rail and into the depending rib of the anchor and clamping said anchor rib tightly against the arm rail at one side of said arm rail groove.

2. In combination with a seat equipped with a wooden arm rail having a longitudinal groove in its upper portion, an arm rest consisting of a rigid base which is generally semicircular in cross-section and provided with a flat-topped surface, said base having a groove extending upwardly therein, padding on the flat portion of said base, a covering extending about said padding and base and secured to the bottom of said base, a rigid anchor extending into the groove of said base and rigidly secured therein, said anchor having a depending rib received within the groove of said rail, a covering about said arm rail and having the end portions extending inwardly into the space between said arm rail and said base, and a screw extending through said arm rail and into said anchor rib to clamp said anchor rib tightly against one wall of said arm rail at one side of the groove therein.

FRANK J. HAVEL.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
297,405	Jacobson	Apr. 22, 1884
1,815,103	Sackner	July 21, 1931
1,869,444	Tobey	Aug. 2, 1932
1,873,190	Doller	Aug. 23, 1932
1,977,702	Summerlee et al.	Oct. 23, 1934
2,292,445	Hildring	Aug. 11, 1942
2,307,138	Kraeft	Jan. 5, 1943
2,370,711	Brody	Mar. 6, 1945

FOREIGN PATENTS

Number	Country	Date
306,700	Great Britain	Feb. 28, 1929