

Nov. 14, 1967

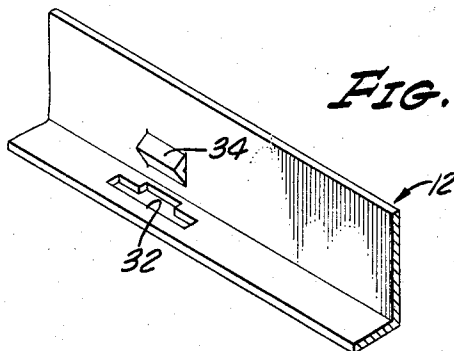
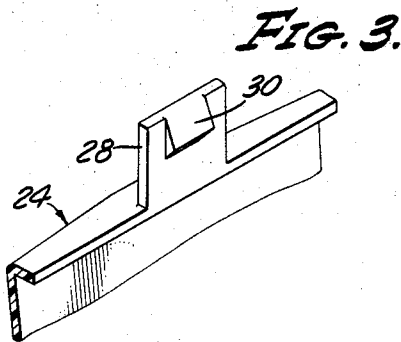
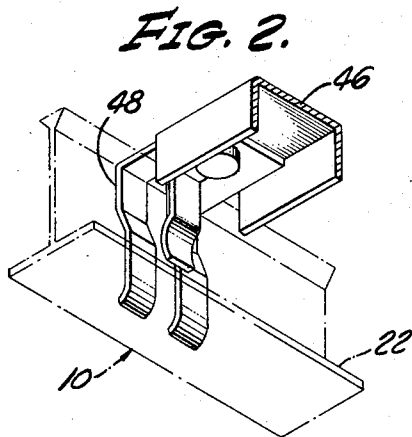
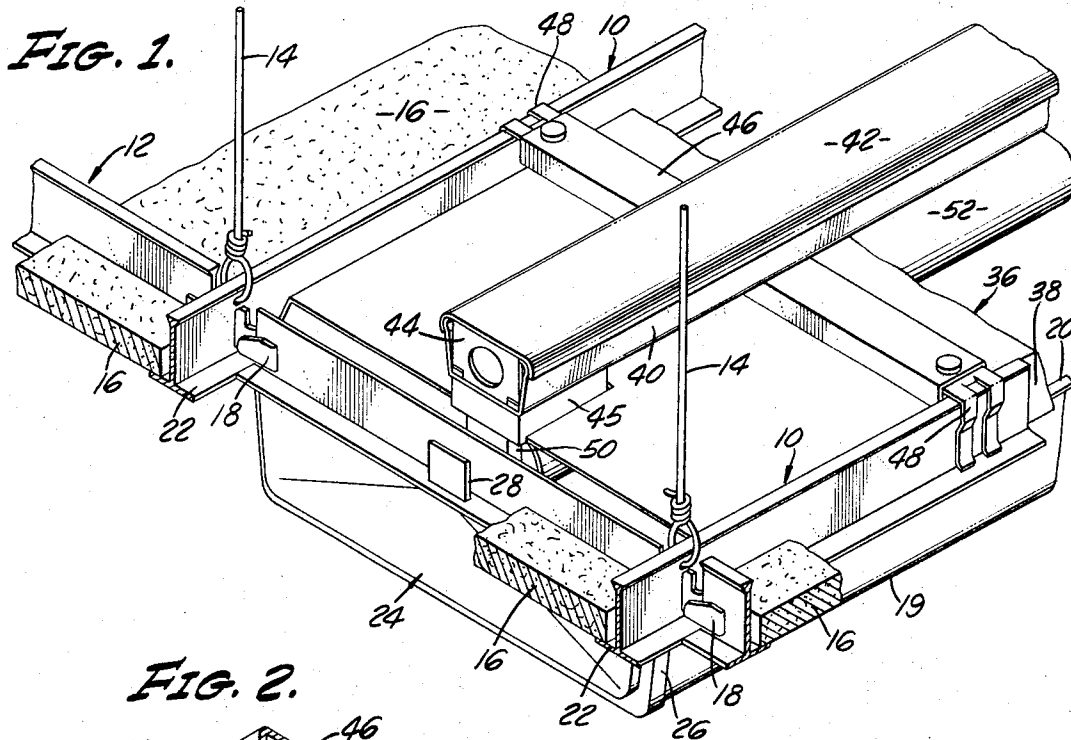
O. S. SUTTER

3,352,071

FIXTURE FOR USE IN A SUSPENDED GRID CEILING SYSTEM

Filed March 8, 1965

2 Sheets-Sheet 1



ORMOND S. SUTTER
INVENTOR

BY

Lyon & Lyon

ATTORNEYS

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2 Sheets-Sheet 2

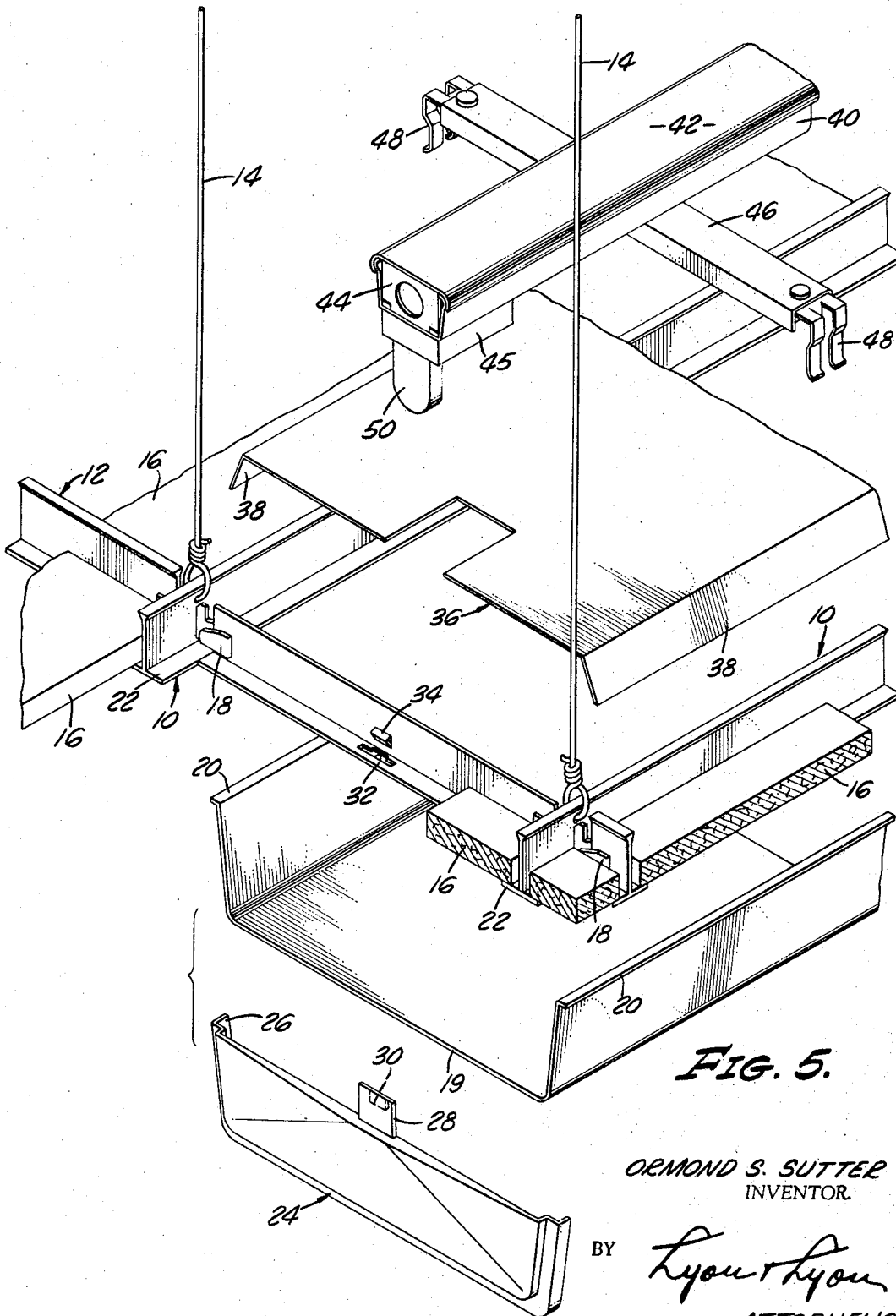


FIG. 5.

ORMOND S. SUTTER
INVENTOR.

BY

Lyon & Lyon
ATTORNEYS

1

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FIXTURE FOR USE IN A SUSPENDED GRID CEILING SYSTEM

Ormond S. Sutter, Placentia, Calif., assignor to Lok-Products Co., Fullerton, Calif., a corporation of California

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ABSTRACT OF THE DISCLOSURE

An improved fixture for use in a suspended grid ceiling system having an end cap supporting the ends of a diffuser with locking means adapted to projecting through transverse runners to secure the end cap in place supporting the end of the diffuser.

This invention relates to an improved fixture for use in a suspended grid ceiling system.

According to the present invention, a light fixture is provided that is readily mounted in a suspended grid ceiling and which requires minimum modification of a conventional suspended grid ceiling. This is accomplished by providing the fixture with a diffuser which is supported by end caps at each end of the fixture, which end caps are provided with locking means for cooperating with slots formed in the cross runners of the ceiling.

It is an object of this invention to provide a fixture which readily and easily is supported in a suspended grid ceiling.

A further object of this invention is to provide such a fixture which requires minimum modification of a standard suspended grid ceiling.

Still a further object is to provide a fixture which is assembled in a novel manner.

Other objects and advantages will be readily apparent from the following description.

In the drawings:

FIGURE 1 is a fragmentary perspective with parts broken away.

FIGURE 2 is a diagrammatic view of the bracket clip.

FIGURE 3 is a perspective of a portion of the end cap.

FIGURE 4 is a perspective of a portion of a modified cross runner.

FIGURE 5 is a fragmentary perspective of the components.

Suspended grid ceilings of the type having longitudinal T-shaped runners 10 and T-shaped cross runners 12 are well known in the art. The grid thus formed is suspended by wires 14 from the ceiling of a room in a manner well known and acoustical tiles 16 are supported on the flanges of runners 10 and 12. Clips 18 are utilized to interlock abutting cross runners 10.

This invention is directed to a light fixture for such a ceiling. A light diffuser 19 has longitudinal flanges 20 along the sides thereof which rest on the opposed flanges 22 of adjacent longitudinal runners 10. An end cap 24 fits over each end of the diffuser and has a flange 26 forming a support therefor, and an upwardly projecting tab 28 having an inwardly projecting locking protuberance 30 thereon.

A modified cross runner 12 has a slot 32 which receives tab 28 and a protuberance 34 which engages protuberance 30 in interlocking relationship, thereby anchoring the cap 24 and hence the end of diffuser 19 to the ceiling grid.

A reflector 36 formed of aluminum or other suitable

2

material has downwardly turned longitudinal flanges 38 which are supported also upon flanges 22 of longitudinal runners 10.

A wireway 40 is formed of an open top channel enclosed by a cover 42 and an end plate 44 and having a lamp box holder 45 in either end. The wireway 40 carries at least one, and preferably one adjacent each extremity, support bracket 46 welded or otherwise affixed thereto. At each extremity of the support bracket a spring clip 48 is provided which snaps over the upper enlarged head of the longitudinal T-shaped runner 10 holding the wireway in place.

The reflector at each extremity has a notch cut therein to permit the lamp holder box 45 to pass therethrough and lamp socket 50 to project below reflector 36 and support lamp 52 within the fixture.

While what hereinbefore has been described as the preferred embodiment of this invention, it is readily apparent that alterations and modifications can be resorted to without departing from the scope of this invention, and such alterations and modifications are intended to be included within the scope of the appended claims.

I claim:

1. In a suspended grid ceiling system of the type having longitudinal flanged runners and cross flanged runners the combination of a diffuser supported upon the opposed flanges of a pair of longitudinal runners, an end cap fitting over and supporting an end of said diffuser, means forming a slot in one cross runner, a tab on said end cap projecting through said slot, locking means releasably interlocking said tab and last-mentioned cross runner.

2. In a suspended grid ceiling system of the type having longitudinal flanged runners and cross flanged runners the combination of a diffuser, an end cap fitting over and supporting an end of said diffuser, means forming a slot in one cross runner, a tab on said end cap projecting through said slot, locking means releasably interlocking said tab and last-mentioned cross runner.

3. In a suspended grid ceiling system of the type having longitudinal flanged runners and cross flanged runners the combination of a diffuser, an end cap fitting over and supporting an end of said diffuser, means forming a slot in one cross runner, a tab on said end cap projecting through said slot, locking means releasably interlocking said tab and last-mentioned cross runner, a reflector supported upon the opposed flanges of said longitudinal runners, a wireway, at least one support bracket overlying said reflector, spring clips at each extremity of said bracket releasably engaging said last-mentioned longitudinal runners, said wireway being secured to said support bracket.

4. In a suspended grid ceiling system of the type having longitudinal flanged runners and cross flanged runners the combination of a diffuser supported upon the opposed flanges of a pair of longitudinal runners, an end cap fitting over and supporting an end of said diffuser, means forming a slot in one cross runner, a tab on said end cap projecting through said slot, locking means releasably interlocking said tab and last-mentioned cross runner, a reflector supported upon the opposed flanges of said longitudinal runners, a wireway, at least one support bracket overlying said reflector, spring clips at each extremity of said bracket releasably engaging said last-mentioned longitudinal runners, said wireway being secured to said support bracket.

5. In a suspended grid ceiling system of the type having longitudinal flanged runners and cross flanged run-

3

ners the combination of a diffuser supported upon the opposed flanges of a pair of longitudinal runners, an end cap fitting over and supporting an end of said diffuser, means forming a slot in one cross runner, a tab on said end cap projecting through said slot, locking means releasably interlocking said tab and last-mentioned cross runner, a reflector supported upon the opposed flanges of said longitudinal runners, a wireway, at least one support bracket overlying said reflector, spring clips at each extremity of said bracket releasably engaging said last-mentioned longitudinal runners, said wireway being secured to said support bracket, said reflectors having openings therethrough, said wireway being adapted to carry lamp sockets projecting through said openings.

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HENRY C. SUTHERLAND, *Primary Examiner*.FRANK L. ABBOTT, *Examiner*.G. W. HORNADAY, *Assistant Examiner*.