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(19) (CA) CANADIAN PATENT (12)

- (54) Sandwich Panel Unit for Use in a Partition Wall
- (72) Price, R. Stanley , Canada Thorsell, Stanley E. , Canada
- (73) Thorsell Holdings Ltd. , Canada Mudlake Holdings Ltd. , Canada

(57) 22 Claims

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"SANDWICH PANEL UNIT FOR USE IN A PARTITION WALL"

ABSTRACT OF THE DISCLOSURE

A sandwich panel unit is provided comprising gypsum board panels suspended from cross-members of a rectangular frame. The panels are latched to the frame by suitable brackets. The sandwich panel unit can be de-mounted and relocated as a cohesive unitary assembly. It can also be disassembled and re-located in pieces.

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FIELD OF THE INVENTION

This invention relates to a sandwich panel unit for use in a partition wall and to a wall assembly incorporating a plurality of such sandwich panel units.

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BACKGROUND OF THE INVENTION

In modern office buildings, the space is commonly sub-divided by removable partition walls.

As stated, these walls are not permanent in nature. From time to time, the wall assembly may be removed totally or disassembled and re-located in a new position. 10

So the ease or simplicity with which a removable 11 partition wall may be erected or disassembled is an important 12 feature of the wall. If the wall is easy to install and re-13 14 locate, then the degree of skill required of the installation workers becomes less and the man-hours required to install 15 the wall diminishes. 16

17 In disassembling the wall, some of the components 18 making up the wall may be damaged, with the result that they must be replaced if the wall is to be re-assembled. 19 These 20 walls commonly have gypsum board panels as a major component. Gypsum board is a relatively delicate material that can be 21 22 easily damaged when being separated from other components.

23 As stated, the wall typically incorporates side-by-24 side, vertically extending gypsum board panels. These panels have "joints" where the side edge of a panel comes close to 25 or abuts the next element in the wall. These joints in some 26 27 known wall systems are unsightly because of gaps left between 28 the elements and/or jointing hardware and it is common to

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1 mask them with protruding battens. In recent years, wall 2 systems have been developed which are adapted to permit of 3 the wall elements being drawn close together to create a 4 "pencil-line joint", thereby eliminating the need for a 5 protruding batten. The resulting appearance of the segmented 6 wall is described in the trade as being "monolithic".

7 In summary then, it would be desirable to provide a 8 removable partition wall system which has the following 9 characteristics:

10		That	it	can	quickly	be	assembled	and
11		disassembled;						
12	-	That	it	lend	ls itself	f to	assembly	and
13		disass	sembl	ly by	relatively	uns	killed worker	s;

That the gypsum board panels can be
 disassembled with little damage; and

16 - That it has pencil-line joints and a
17 monolithic appearance.

18 These desirable characteristics of a partition wall 19 system will be better appreciated by shortly describing some 20 of the prior art commercial systems currently being used and 21 identifying their shortcomings in these respects.

22 One prior art system involves providing a frame of 23 laterally spaced, vertical channel studs extending between 24 ceiling and floor channels or "tracks". Gypsum board panels 25 are secured to the two sides of the studs by screws or 26 This involves fitting and levelling difficulties adhesive. 27 which, in turn, requires the use of skilled workers. In 28 addition, there are usually vertical gaps left between the 29 side edges of adjacent gypsum board panels. As a result,

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protruding battens must be used with the system. If the gypsum
 board panels are removed, they commonly must be discarded, due
 to damage incurred when detaching them from the studs.

Another prior art wall system incorporates what are 4 5 referred to in the trade as sandwich panels. Each such sandwich panel comprises a pair of steel or gypsum board facing panels 6 secured by adhesive to a central lightweight core of material 7 8 such as paper honeycomb or foam plastic. When the components are 9 so secured, the assembly provides a discrete integral and rigid 10 The sandwich panels are normally assembled in a factory unit. and shipped to the work site. Here they are inserted between 11 12 floor and ceiling channels. They are secured together and maintained in alignment by suitable clamping brackets. Some 13 14 undesirable features of this system are:

- 15 That the sandwich panels have to be assembled in
 16 a factory and shipped in the assembled state.
 17 They are heavy and unwieldy and consequently easy
 18 to damage. The entire unit must be discarded if
 19 it is damaged;
- 20 The unit, being heavy, typically requires the
 21 services of at least two workers when being
 22 handled;
- Due to the use of adhesive to unite the core and
 panels, the components cannot be disassembled in
 order to accommodate future changes to wiring or
 other services normally buried in the wall cavity;
 and

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