

**EUROPEAN PATENT APPLICATION**

Application number: 90200432.4

Int. Cl.<sup>5</sup>: **B42C 9/00, B42B 5/00, B42C 13/00**

Date of filing: 22.02.90

Priority: 07.03.89 NL 8900558

Applicant: **MERLIN C.T.C. Production Division**  
**Nederland B.V.**  
**Kerkstraat 18b**  
**NL-5253 AP Nieuwkuik(NL)**

Date of publication of application:  
19.09.90 Bulletin 90/38

Inventor: **Kelders, Jan**  
**Eendekooi 22**  
**NL-5151 RL Drunen(NL)**  
Inventor: **Raar, Hans**  
**Savornin Lohmanlaan 63**  
**NL-5252 AE Vlijmen(NL)**

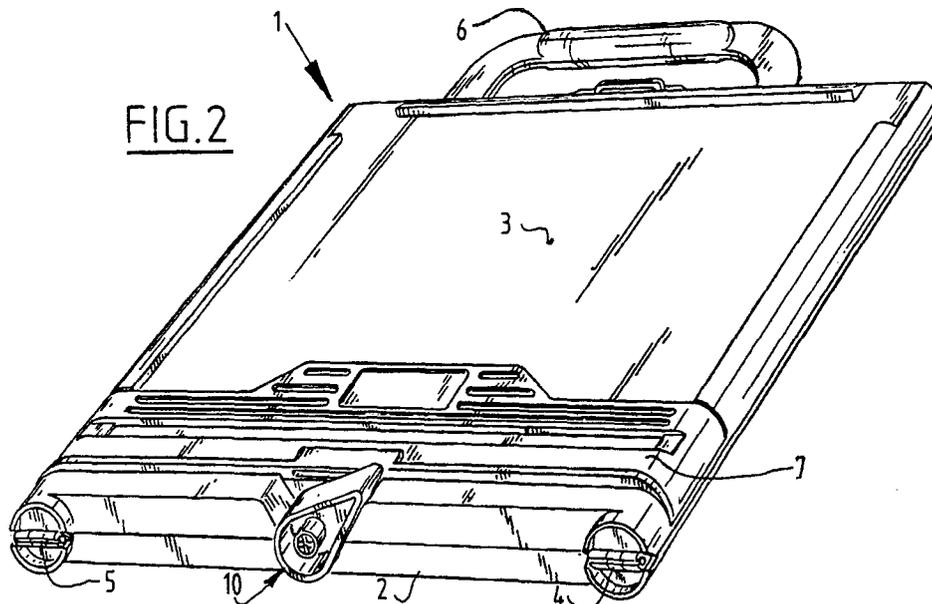
Designated Contracting States:  
**BE CH DE ES FR GB IT LI LU NL**

Representative: **Land, Addick Adrianus**  
**Gosling et al**  
**OCTROOIBUREAU ARNOLD & SIEDSMA**  
**Sweelinckplein 1**  
**NL-2517 GK Den Haag(NL)**

**Binding device.**

The invention relates to a binding device which is takes a portable form and which is intended for

binding together sheets of paper.



**EP 0 387 932 A1**

## BINDING DEVICE

The invention relates to a binding device which is takes a portable form and which is intended for binding together sheets of paper.

In practice it is desirable to have available a portable device with which, for example, sheets of paper can be adhered to each other.

Many binding devices are known, for example by means of stapling, the enclosure of a stack of sheets on the spineside and the like.

Such devices are in general large, stationary and difficult to operate.

The invention has for its object to provide a solution for these drawbacks. This is achieved according to the invention by providing a portable device for binding sheets, in particular of paper, to each other with an elongate, clamping strip provided with a lengthwise groove and a support surface placed opposite the clamping strip, means for performing a movement of the strip between a position close to and a position at an interval from the support surface and a dosing means for adhesive movable over the lengthwise groove in the clamping strip.

By placing sheets successively in the device, thereafter moving the dosing means for adhesive through the groove and subsequently placing a sheet again, it is possible to bind a chosen number of sheets to each other.

In order to place the sheets properly a stop means is arranged preferably parallel to the clamping strip and bounding the opening between the clamping strip and the support surface. In order to increase the portability the device has the form of a case wherein the outer side of the cover of the case forms the support surface. The dosing means can be a separate means that is movable over the lengthwise groove in the clamping strip. During this movement pressure is exerted in order to bind the sheets to each other in a reliable manner. The clamping strip can be controlled in its movement by a pin movable in a lengthwise opening in the clamping strip and placed on a swivelling lever. The clamping strip is guided thereby by at least two swivelling arms.

The invention will be further elucidated with reference to the drawings. In the drawings:

fig. 1 shows a stack of sheets adhered to each other with the device according to the invention,

fig. 2 shows a perspective view of the device in the form of a case,

fig. 3 shows a portion of the clamping strip and support surface,

fig. 4 shows the clamping strip in the opened position during insertion of a sheet of paper,

fig. 5 shows the applying of a quantity of adhesive and,

fig. 6 shows the case in the opened position.

The device 1 has the form of a case consisting of a bottom part 2 and a cover 3 which are connected together by means of a hinge connection 4, 5. The case displays a carrying grip 6 in the usual manner.

The outer side of the cover of the case serves as support surface. A clamping strip 7 is vertically up and downward movable relative to the support surface. In the opened position (fig. 4) the clamping strip 7 is situated at an interval from the support surface. In this position a sheet of paper 8 can be inserted. This sheet is pushed in until it lies against the stop means 9. The clamping strip is thereafter moved downward, which is carried out by operating a control knob 10 in the form of a lever arm 12 swivellable around a shaft 11, which lever arm has at its outer end a pin 13 which is movable in a lengthwise opening 14 in the clamping strip 7. The vertical movement is guided by two swivel ling arms 15, 16. After the downward movement of the clamping strip 7 the sheet 8 is clamped in place. Subsequently the dosing means for adhesive 18 is moved manually through the lengthwise groove 17. Some pressure is applied thereby. In this manner an adhesive strip is applied on the edge margin of the sheet 8 and sheets which may be lying underneath are pressed onto each other whereby a reliable adhesion occurs.

## Claims

1. Portable device for binding sheets, in particular of paper, to each other with an elongate clamping strip provided with a lengthwise groove and a support surface placed opposite said clamping strip, means for performing a movement of said strip between a position close to and a position at an interval from said support surface and a dosing means for adhesive movable over said lengthwise groove in said clamping strip.

2. Device as claimed in claim 1, **characterized in that** parallel to the clamping strip is arranged a stop means bounding the opening between the clamping strip and the support surface.

3. Device as claimed in claims 1-2, **characterized in that** the support surface is formed by the cover of a case.

4. Device as claimed in claims 1-3, **characterized in that** the dosing means is a separate means movable over the lengthwise groove.

5. Device as claimed in claim 4, **characterized**

**in that** the dosing means is guided such that pressure is applied while it is moved along the lengthwise groove of the clamping strip.

6. Device as claimed in claim 1, **characterized in that** the clamping strip is controlled by a pin movable in a lengthwise opening in the clamping strip and placed on a swivelling lever. 5

7. Device as claimed in claim 6, **characterized in that** the clamping strip is guided in its movement by at least two swivelling arms. 10

15

20

25

30

35

40

45

50

55

FIG.1

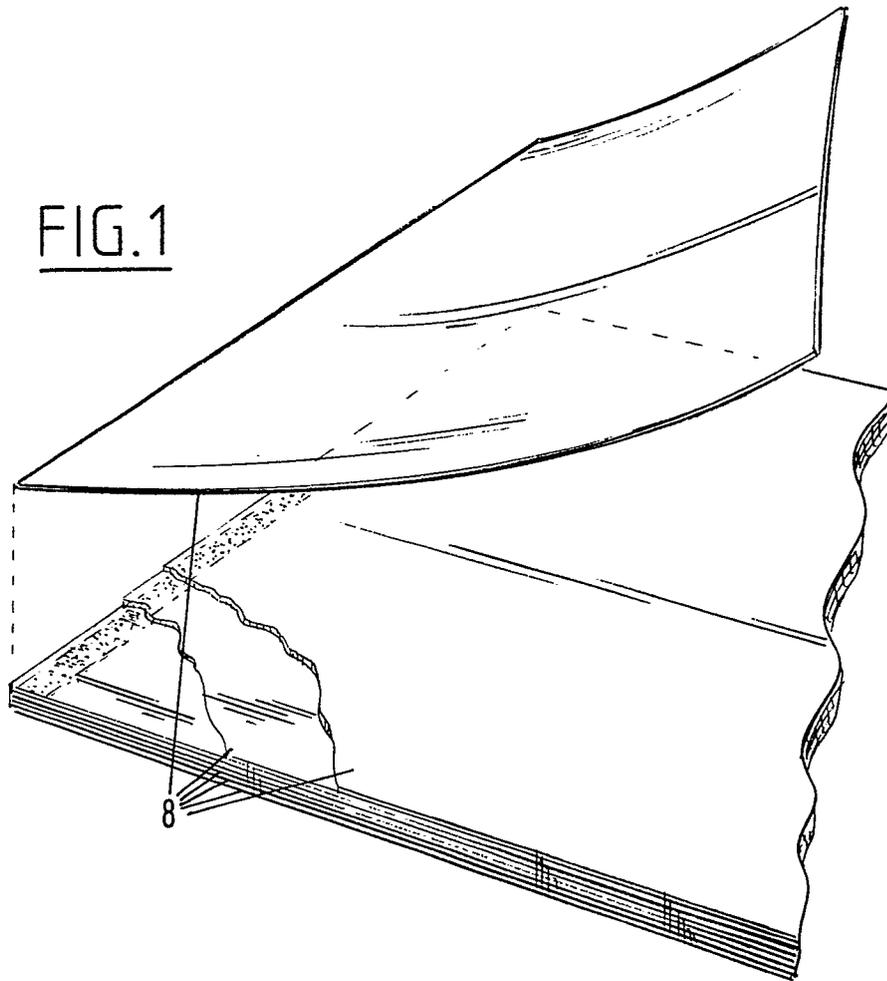
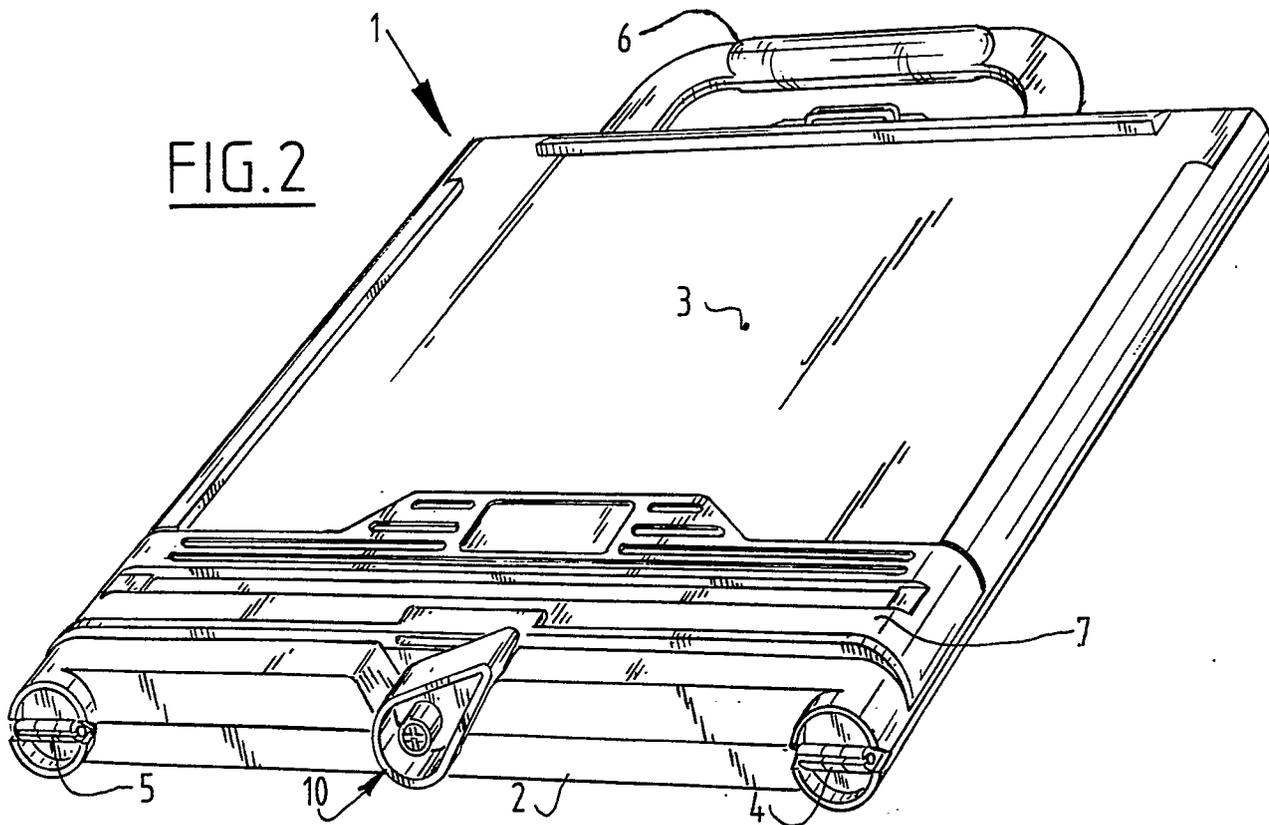
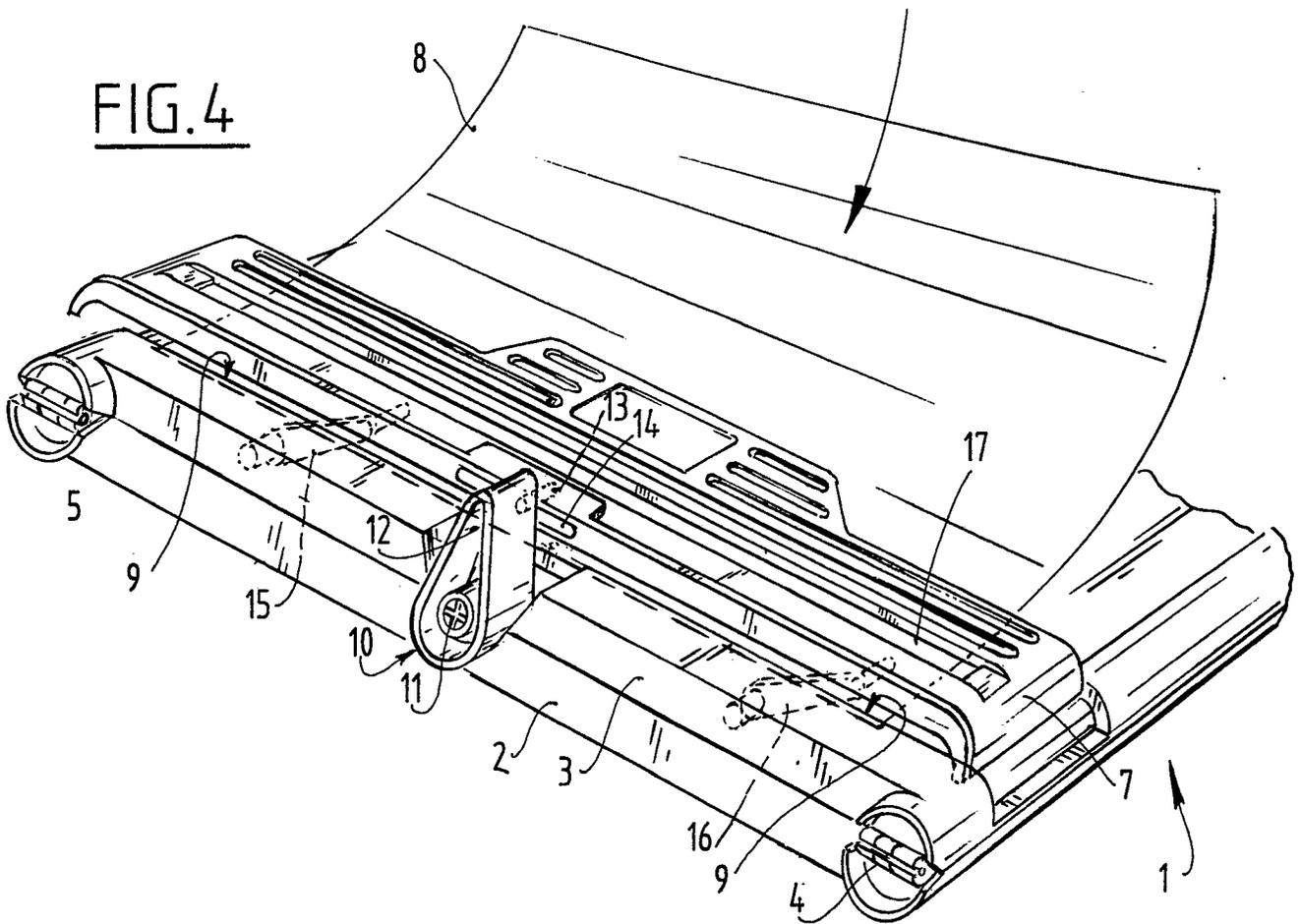
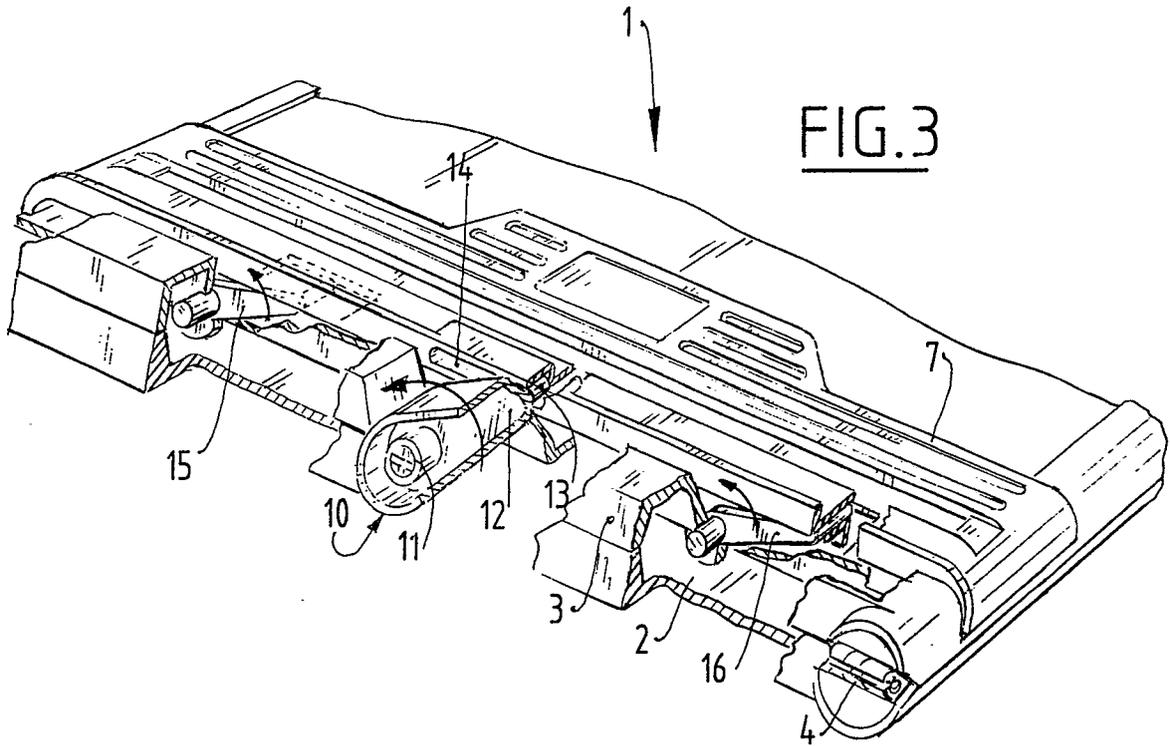


FIG.2









DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
A	US-A-3321786 (BOLICK) * the whole document * -----	1	B42C9/00 B42B5/00 B42C13/00
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			B42B B42C
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 28 JUNE 1990	Examiner EVANS A. J.
<p><b>CATEGORY OF CITED DOCUMENTS</b></p> <p>X : particularly relevant if taken alone            Y : particularly relevant if combined with another document of the same category            A : technological background            O : non-written disclosure            P : intermediate document</p> <p>T : theory or principle underlying the invention            E : earlier patent document, but published on, or after the filing date            D : document cited in the application            I : document cited for other reasons            .....            &amp; : member of the same patent family, corresponding document</p>			