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	 ³⁰ Priority: 18.03.80 NL 8001593 ⁴³ Date of publication of application: 23.09.81 Bulletin 81/38 ⁸⁴ Designated Contracting States: AT BE CH DE FR GB IT LI LU NL SE 	 (71) Applicant: Akzo N.V. Ijssellaan 82 NL-6826 DW Arnhem(NL) (72) Inventor: De Jager, Evert Mozartlaan 16 Oss(NL) (74) Representative: van 't Holt, Hend Postbus 20 NL-5340 BH Oss(NL) 	rik et al,					
0 036 229 A1	Multi-phase combination-type sequential preparation for The invention relates to a multiphase combination-type sequential preparation for oral contraception consisting of 20-22 tablets each containing a gestagen and an oestrogen wherein a first phase consists of 5-8 tablets, each of which contains a low dose of gestagen and a relatively high dose of oestrogen, a second phase of 5-8 tablets each having a ges- tagen dose which is greater than that during the first phase and an oestrogen dose which is smaller than that in the first phase, and a third phase of 5-11 tablets each of which has a gestagen dose equal to or greater than that during the second phase and an oestrogen dose equal to or less than that in the second phase, and to a method of oral contraception using said preparation.	oral contraception and method of oral c	ontraception.					
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adjustable or not, is provided on the box which corresponds with the days on which each of the tablets has to be taken.

Another practical form of packaging is strip 5 packaging or push-through packaging whereby each tablet is sealed in a separate compartment and where, on the strip or the packaging, date indications are provided or other sort of indications which denote the sequence in which the

10 tablets should be taken.

The invention will now be explained with the aid of the following examples, which are preferred specific embodiments of the invention and are to be construed as merely illustrative and not

15 limitative as to the remainder of the disclosure in any way whatsoever.

Example I

Composition of tablets

20	In the first phase			
	(7 tablets)	0.025	mg	desogestrel
		0.040	mg	EE
		8.000	mg	potato starch
		2.400	mg	polyvinyl pyrrolidone
25		0.800	mg	stearic acid
		0.800	mg	silica
		0.080	mg	dl-a-tocopherol
	make up to	80.000	mg	with lactose
	In the second and third			
30	phases (14 tablets)	0.125	mg	desogestrel
		0.030	mg	EE
		8.000	mg	potato starch
		2.400	mg	polyvinyl pyrrolidone
		0.800	mg	stearic acid
35		0.800	mg	silica
		0.080	mg	dl-a-tocopherol
	make up to	80.000	mg	with lactose.

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Example II

Composition of tablets.

Same as in Example I, except that in the second and third phases 0.025 mg EE is used 5 instead of 0.030 mg EE.

Example III

	Composition of tablets	í.				
	In the first phase					
10	(7 tablets)	0.050 mg desogestrel				
		0.040 mg EE				
	2	16.000 mg maize starch				
		1.900 mg polyvinyl pyrrolidone				
		1.500 mg talc powder				
15		0.080 mg magnesium stearate				
	make up to	80.000 mg with lactose				
	In the second phase					
	(7 tablets)	0.100 mg desogestrel				
		0.030 mg EE				
20	and otherwise identical	with the composition in				
	the first phase;					
	In the third phase	* :				
	(7 tablets)	0.200 mg desogestrel				
		0.020 mg EE				
25	and otherwise identical	with the composition in				
	the preceding phases.	*				
Example IV						
	Composition of tablets					
30	In the first phase	e v				
	(7 tablets)	0.025 mg desogestrel				
		0.040 mg EE				
		8.000 mg potato starch				
	¹ a	2.400 mg polyvinyl pyrrolidone				
35		0.800 mg stearic acid				
1996 - 1996 1997 - 1997		0.800 mg silica				

0.080 mg dl-α-tocopherol

80.000 mg with lactose

make up to

In the second phase (7 tablets) 0.075 mg desogestrel 0.030 mg EE and otherwise identical with the composition in the first phase. 5 In the third phase (7 tablets) 0.125 mg desogestrel 0.025 mg EE and otherwise identical with the composition in 10 the preceding phases. Example V Composition of tablets In the first phase 15 (7 tablets) 0.040 mg desogestrel 0.040 mg EE 5.000 mg potato starch 2.000 mg polyvinyl pyrrolidone 0.050 mg dl- α -tocopherol 20 0.250 mg magnesium stearate make up to 50.000 mg with lactose In the second phase (7 tablets) 0.075 mg desogestrel 0.030 mg EE and otherwise identical with the composition in 25 the first phase. In the third phase (7 tablets) 0.125 mg desogestrel 0.030 mg EE 30 and otherwise identical with the composition in the preceding phases.

	Example VI						
80 C	Composition of coated tablets						
	In the first phase						
	(7 tablets) 0.050 mg 3-oxo-desogestrel						
5	0.040 mg EE						
	16.000 mg maize starch						
	1.900 mg polyvinyl pyrrolidone						
	1.500 mg talc powder						
	30.510 mg lactose						
10	50.000 mg						
	which is processed together with a normal sugar						
	mixture to give coated tablets of roughly 80 mg.						
	In the second phase						
	(7 tablets) 0.075 mg 3-oxo-desogestrel						
15	0.030 mg EE						
	and otherwise identical with the composition in the						
first phase.							
In the third phase							
	(7 tablets) 0.150 mg 3-oxo-desogestrel						
20	0.025 mg EE						
	and otherwise identical with the composition in						
	the preceding phases.						
	Example VII						
25	Composition of tablets						
	In the first phase						
	(5 tablets) 0.025 mg desogestrel						
	0.040 mg EE						
	8.000 mg potato starch						
30	2.400 mg polyvinyl pyrrolidone						
	0.800 mg stearic acid						
a.	0.800 mg silica						
	0.080 mg dl-a-tocopherol						
	make up to 80.000 mg with lactose						
35							

In the second phase (7 tablets) 0.075 mg desogestrel 0.030 mg EE and otherwise identical with the composition in 5 the first phase. In the third phase (9 tablets) 0.125 mg desogestrel 0.025 mg EE and otherwise identical with the composition in 10 the preceding phases.

Example VIII

Composition of tablets In the first phase 15 (6 tablets) 0.040 mg desogestrel 0.040 mg EE 0.012 mg indogotine 8.000 mg potato starch 2.400 mg polyvinyl pyrrolidone 20 0.800 mg stearic acid 0.080 mg dl-a-tocopherol make up to 80.000 mg with lactose In the second phase (8 tablets) 0.075 mg desogestrel 25 0.030 mg EE and otherwise identical with the composition in the second phase, whereby however 0.012 mg indigotine is replaced by 0.020 mg sun yellow FCF. In the third phase 30 (7 tablets) 0.150 mg desogestrel 0.025 mg EE and otherwise identical with the composition in the preceding phases, whereby however the colouring agent is omitted.

Example IX

A preparation according to Example I was administered to 720 fertile women daily for 7 days (first phase) and daily for the following 14 days 5 (second and third phase) per woman. The subsequent

7 days during which the menstrual bleeding occurred remained without administration. This regimen of administration was maintained for about 8 months, resulting in a total number of 5363 treatment

10 cycles.

During the entire treatment period no pregnancies occurred. Cycle control was excellent. The incidence of breakthrough bleedings and spottings was low. Also other side effects were on a low level.

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Example X

A preparation according to Example III was administered to 710 fertile women daily for 7 days (first phase), daily for the following 7 days

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(second phase) and daily for the subsequent 7 days (third phase) per woman. Another 7 days during which the menstrual bleeding occurred remained without administration. This regimen of administration was maintained for about 6 months, resulting in a total 25 number of 3982 treatment cycles.

During the entire treatment period no pregnancies occurred. Cycle control was excellent. The number of drop-outs was very small indicating the low incidence of side effects.

CLAIMS

- 1. Multi-phase combination-type sequential preparation for oral contraception consisting of 20-22 tablets each containing a gestagen and an oestrogen characterised in that a first phase consists of 5-8 tablets, each of which contains a low dose of gestagen and a relatively high dose of oestrogen, a second phase of 5-8 tablets each having a gestagen dose which is greater than that during the first phase and an oestrogen dose which is smaller than that in the first phase, and a third phase of 5-11 tablets each of which has a gestagen dose equal to or greater than that during the second phase and an oestrogen dose equal to or less than that in the second phase.
- Preparation as in claim 1 characterised in that desogestrel is employed as gestagen.
- 3. Preparation as in claim 1, characterised in that the 3-oxo-derivate of desogestrel is employed as gestagen.
- 4. Preparation as in claims 1-3, characterised in that the amount of gestagen per tablet, expressed in mg desogestrel, during the first phase is less than or equal to 0.050.

- 2 :
- 5. Preparation as in claims 1-4, characterised in that during the first phase the oestrogen dose per tablet is less than the amount which corresponds to 0.050 mg ethinyloestradiol.
- 6. Preparation as in claims 1-5, characterised in that the amount of oestrogen per tablet expressed in mg ethinyloestradiol is in the first phase between 0.030 and 0.045, in the second phase between 0.020 and 0.035 and in the third phase between 0.015 and 0.030.
- 7. Preparation as in claims 1-6, characterised in that the total amount of oestrogen in the 20-22 tablets expressed in mg ethinyloestradiol is less than 0.750 and preferably < 0.700.</p>
- 8. Preparation as in claims 1-7, characterised in that the amount of gestagen per tablet expressed in mg desogestrel is in the second phase 1.5-5 times greater than during the first phase, and in the third phase is 3-6 times greater than in the first phase.
- 9. Preparation as in claim 8, characterised in that the total amount of gestagen in the 20-22 tablets expressed in mg desogestrel is between 2 and 4 times as great as the total amount of oestrogen expressed in mg ethinyloestradiol.
- 10. Preparation as in claims 1-9, characterised in that the first phase consists of 7 tablets each of which contains 0.025 mg desogestrel and 0.040 mg ethinyloestradiol, the second phase consists of 7 tablets each containing 0.125 mg desogestrel and 0.030 mg ethinyloestradiol, and the third phase consists of 7 tablets each of which contains the same amount of gestagen and oestrogen as in the second phase.

11. Preparation as in claims 1.9, characterised in that the first phase consists of 7 tablets each of which contains 0.025 mg desogestrel and 0.040 mg ethinyloestradiol, the second phase consists of 7 tablets each of which contains 0.125 mg desogestrel and 0.025 mg ethinyloestradiol, and the third phase consists of 7 tablets each of which contains the same amount of gestagen and oestrogen as in the second phase.

12. Preparation as in claims 1-9, characterised in that the first phase consists of 7 tablets each of which contains 0.050 mg desogestrel and 0.040 mg ethinyloestradiol, the second phase consists of 7 tablets each of which contains 0.100 mg desogestrel and 0.030 mg ethinyloestradiol, and the third phase consists of 7 tablets each of which contains 0.200 mg desogestrel and 0.020 mg ethinyloestradiol.

13. Preparation as in claims 1-9, characterised in that the first phase consists of 7 tablets each of which contains 0.025 mg desogestrel and 0.040 mg ethinyloestradiol, the second phase consists of 7 tablets each of which contains 0.075 mg desogestrel and 0.030 mg ethinyloestradiol, and the third phase consists of 7 tablets each of which contains 0.125 mg desogestrel and 0.025 mg ethinyloestradiol.

14. A method of oral contraception which comprises orally administering for 20-22 days to a fertile female the tablets of the combination-type preparation of any of the claims 1 to 13, said tablets being administered according to the prescribed sequence of phases while administering one tablet a day.

European, Patent Office

PARTIAL EUROPEAN SEARCH REPORT

0036229

Application number

which under Rule 45 of the European Patent Convention EP 81 20 0240 shall be considered, for the purposes of subsequent proceedings, as the European search report

		IDERED TO BE RELEVANT		CLASSIFICATION OF THE APPLICATION (Int. Cl.)
Category	Citation of document with inc passages	lication, where appropriate, of relevant	Relevant to claim	
D	<u>US - A - 3 939</u> LACHNIT-FIXON) * Claims *	264 (URSULA	1	A 61 K 45/06 31/565 31/57
D	<u>US - A - 3 957</u> LACHNIT-FIXON)	982 (URSULA	1	
	* Claims *			
	DE - B - 2 265 * Whole patent	435 (SCHERING AG)	1	TECHNICAL FIELDS SEARCHED (Int. Cl.3)
	CHEMICAL ABSTRA no. 17, October page 110, abstr Columbus, Ohio, W.H.F. SCHNEIDE of three-phase	23, 1978 act 141027p	1	A 61 K 45/06 31/565 31/57
	& INT. CONGR. S 1978, 441(Int. Contracept., 19 * Whole abstra	77), 126-35.		
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INCOMPLETE SEARCH The Search Division considers that the present European patent application does not comply with the provisions of the European Patent Convention to such an extent that it is not possible to carry out a meaningful search into the state of the art on the basis of some of the claims. Claims searched completely: 1-10 Claims searched incompletely: Claims not searched: 11 Reason for the limitation of the search: Method for treatment of the human or animal body by surgery or therapy (See Art. 52(4) of the European Patent Convention)			 CATEGORY OF CITED DOCUMENTS X: particularly relevant A: technological background O: non-written disclosure P: Intermediate document T: theory or principle underlying the invention E: conflicting application D: document cited in the application L: citation for other reasons &: member of the same patent family, 	
Place of se		Date of completion of the search	Examiner	corresponding document
	The Hague	19-06-1981	HE	NRY

EPO Form 1505.1 06.78

MULTI-PHASE COMBINATION-TYPE SEQUENTIAL PREPARATION FOR ORAL CONTRACEPTION AND METHOD OF ORAL CONTRA-CEPTION.

The invention relates to a multi-phase combination-type sequential preparation for oral contraception consisting of 20-22 tablets (daily dose units), each comprising a gestagen and an oestrogen and to a method of oral contraception using said preparation.

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Oral contraceptives of the "combination-type" for sequential or cyclic use are generally known, for example the preparations "Lyndiol", "Ovulen",

10 "Anovlar", Neogynon", "Stediril", "Ovostat" and similar combinations of a gestagen and an oestrogen. Such combination-type preparations consist normally of 20-22 tablets of the same composition for daily dosage (each day one tablet), which is followed by

- 15 a tablet-free period of 5-7 days which completes the natural female cycle of roughly 28 days. During the tablet-free period, withdrawal bleeding occurs. After the tablet-free period a new cycle is started using the combination-type preparation. The tablet-
- 20 free period can if required be supplemented by placebos, such as for example is the case with the combination-type preparation "Pregnon 28".



European Patent Office

PARTIAL EUROPEAN SEARCH REPORT EP 81 20 0240

Application number

	DOCUMENTS CONSIDERED TO BE RELEV	ANT		CLASSIFICATION	DN OF THE (Int. Cl.3)
egory	Citation of document with indication, where appropriate, of rele passages	vant	Relevant to claim		
A	CHEMICAL ABSTRACT, vol. 85, no. November 22, 1976, page 81, abstract 154423g Columbus, Ohio, USA L. VIINIKKA: "Biological effect:	s	1,2	ina S	
	of a new and potent progestagen A clinical study".	•	4 A		
	& ACTA ENDOCRINOL (COPENHAGEN), 1976, 83(2), 429-38	Sec. 1			
	* Whole abstract *		2		5
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Multi-phase combination-type sequential preparations, whereby different quantities of gestagen and/or oestrogen are employed during the different phases, are also known. Thus in U.S.

- 5 patent 3 939 264 a description is given of a two-phase combination-type preparation for oral contraception, consisting of 21-23 tablets, where the first 10-12 tablets each comprise a quantity of gestagen, which in activity corresponds with
- 10 0.050-0.125 mg of d-norgestrel, and a quantity of oestrogen which corresponds as regards activity with 0.030-0.050 17α -ethinyloestradiol (EE), and each of the following 11-9 tablets contains a quantity of gestagen which is 2-3 times greater
- 15 than that during the first phase, the quantity of oestrogen remaining the same. An attemps is made in this manner to obtain better adaptation to the natural female cycle, while a continuous, constant dosage of oestrogen is employed. In this way good
- 20 contraceptive effect with reduced side effects should be obtained.

A variation on this two-phase combination-type sequential preparation is described in U.S. patent 3 969 502. The difference here is that the quantity

- 25 of oestrogen per tablet in the second phase is greater than that in the first phase, with a maximum of two times as great, so that not only the gestagen but also the oestrogen is administered in phased fashion. With this preparation there should
- 30 be less oestrogen-dependent side effects.

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A three-phase combination-type preparation is described in U.S. patent 3 957 982. This sequential preparation consists of 21 tablets and comprises a first phase of 4-6 tablets each containing a gestagen in a quantity which, as regards activity.

corresponds with 0.040-0.090 mg of d-norgestrel, and an oestrogen in a quantity which as regards activity corresponds with 0.020-0.050 mg EE, a second phase of 4-6 tablets each containing a

- 5 gestagen in a quantity 1-1.5 times that during the first phase, for example 0.050-0.125 mg of d-norgestrel, and an oestrogen in a quantity which is 1-2 fold that during the first phase, for example 0.030-0.050 mg EE, and finally a third
- 10 phase of 9-11 tablets each containing a quantity of a gestagen which is greater than that during the second phase and not more than three times as great as that during the first phase, for example 0.100-0.250 mg of d-norgestrel, and a quantity of
- 15 bestrogen which is greater than or equal to that during the first phase, and which is less than or equal to that during the second phase, for example 0.025-0.050 mg EE. As compared with the known two-phase combination-type preparations, the
- 20 compatibility and/or cycle control should be capable of being improved when using such a threephase preparation.

In German patent application 2 431 704 a description is given of a variant of the said 25 three-phase preparation. The difference here is that in this variant the three phases are taken for roughly the same period (6-8 tablets), preferably 3 x 7 tablets.

The multi-phase preparations described above 30 illustrate the development, which has already been in progress for some time, in oral contraceptives leading to preparations with a lower content of gestagen and oestrogen. The metabolic changes occurring during the use of oral contraceptives

35 are ascribed mainly to the oestrogenic component.

Preparations with a low dose of oestrogen do not, as regards their effectivity, need to be regarded as inferior to higher dosage preparations. However they exibit the shortcoming that cycle control is

- 5 poorer, which manifests itself in more breakthrough bleeding and "spotting" and the absence of withdrawal bleeding during the tablet-free period. Such break-through bleeding and "spotting" occurs mainly during the second half of the treatment cycle.
- 10 The reasons are that with these combination-type preparations having a low content of oestrogen and relatively high content of gestagen, the oestrogenic effect on the endometrium is impeded by the gestagen which has an anti-oestrogenic effect. The lack of
- 15 oestrogenic influence on the endometrium results in more bleeding during administration, and as already pointed out, particularly during the last days of the cyclic treatment.
- It is already known that excellent cycle control can be obtained with a two-phase sequential preparation whereby during the first phase exclusively an oestrogen is administered and during the second phase a combination of a gestagen and an oestrogen, e.g. a normophasic preparation such as
- 25 "Ovanon" or "Fysioquens" (7 tablets with 0.050 mg EE and 15 tablets with 2.5 mg or 1 mg lynestrenol + 0.050 mg EE).

In order to obtain adequate effectivity with this type of preparation it is essential during

- 30 the first phase to employ at least 0.050 mg EE per tablet. With a lower oestrogen content contraceptive reliability is violently disturbed. An attempt was then made, if possible whilst retaining the good properties of the normo-phasic preparation,
- 35 to impart success to the trend towards preparations with a lower content of oestrogen.

It was then found that if during an initial phase the oestrogen is combined with a low dose of gestagen, during a second phase a lower dose of oestrogen is administered combined with a

5 higher dose of gestagen, and during a third phase a combination is administered which contains a quantity of oestrogen which is equal to or less than that during the second phase, and a quantity of gestagen which is equal to or greater than that 10 during the second phase, a combination-type preparation is obtained which combines excellent cycle control and good contraceptive properties

with a low content of oestrogen.

- The present invention hence relates to a 15 multi-phase combination-type sequential preparation for oral contraception consisting of 20-22 tablets each containing a gestagen and an oestrogen, and is characterised in that an initial phase consists of 5-8 tablets, each of which contains a low dose of
- 20 gestagen and a relatively high dose of oestrogen, a second phase of 5-8 tablets each with a gestagen dose which is greater than that during the first phase, and an oestrogen dose which is less than that during the first phase, and a third phase
- 25 consisting of 5-11 tablets each having a gestagen dose equal to or greater than that during the second phase and an oestrogen dose equal to or less than that during the second phase.
- The present invention further relates to a 30 method of oral contraception in which for 20-22 days the tablets of the combination-type preparation according to the invention are administered to a fertile female, said administration being performed according to the prescribed sequence of phases and

35 administering one tablet a day.

All substances with gestagenic action are suitable as gestagen in the preparation according to the present invention, such as for example lynestrenol, desogestrel, norethisteron, nor-

- 5 ethisteronacetate, ethynodioldiacetate, dl-norgestrel, d-norgestrel, norethynodrel, cingestol and derivatives thereof which are obtained by introducing one or more double bonds, e.g. at the 6(7) location, by substitution, e.g. with chlorine
- 10 or methyl, at for example the 7th or 11th position, or by preparation of functional derivatives such as for example esters, particularly esters of alkane carboxylic acids with 1-12 C-atoms, ethers such as alkyl (1-4 C)-ethers, tetrahydropyranylether,

15 cyclo-alkyl (5-6 C) ethers, or acetals such as ethylene diacetals or propylene diacetals. Preferably desogestrel and the 3-oxo derivative

of desogestrel are employed as gestagens.

- The usual oestrogens, such as EE, mestranol, 20 oestradiol esters and substituted derivates thereof can be employed as oestrogen in the preparation according to the present invention. Preferably EE is employed as oestrogen. If required different gestagens and/or oestrogens can be employed during 25 the different phases.
 - The amount of gestagen per tablet expressed in mg desogestrel during the first phase is not more than 0.050 mg and is normally between 0.020 mg and 0.050 mg. In the second phase the amount of
- 30 gestagen per tablet is preferably 1.5-5 times greater than during the first phase and is usually between 0.040 mg and 0.200 mg expressed in mg desogestrel. During the third phase the amount of gestagen is preferably 3-6 times as great as during
- 35 the first phase and is normally between 0.060 mg and 0.250 mg expressed in mg desogestrel.

The amount of oestrogen per tablet expressed in mg EE is during the first phase less than 0.050 mg and is preferably between 0.030 and 0.045 mg. In the second phase the amount of

5 oestrogen is less than during the first phase and is then preferably between 0.020 and 0.035 mg expressed in mg EE. In the third phase the amount of oestrogen is equal to or less than that during the second phase and is then preferably between 10 0.015 and 0.030 mg expressed in mg EE.

In this way it is possible to ensure that the total quantity of oestrogen in the 20-22 tablets of one cycle does not exceed the amount which corresponds to 0.750 mg EE. Preferably this total

- 15 quantity is not greater than 0.700 mg expressed in mg EE. It should be pointed out that with numerous known combination-type sequential preparations the daily dose of oestrogen is normally 0.050 mg EE which, for 20-22 days, gives a total oestrogen quantity of
- 20 1.0-1.1 mg EE.

If we look at the ratio between the total amount of gestagen and the total amount of oestrogen in the 20-22 tablets, it can be seen that this ratio too can be of importance. A high ratio figure can on the

- 25 one hand indicate a small total quantity of oestrogen, but on the other hand can point to a large total quantity of gestagen. Naturally it is important that also the total quantity of gestagen should be as low as possible without causing a deterioration in the
- 30 contraceptive reliability of the preparation. Preferably the total amount of gestagen in the 20-22 tablets, expressed in mg desogestrel, is between 2 and 4 times larger than the total amount of oestrogen expressed in mg EE.
- 35

In this patent application (except for the examples) when reference is made to tablets, this means other oral dosage units as well such as pills, capsules, coated tablets, granules. The

- 5 oral dosage units are obtained by mixing the desired quantity of gestagen and oestrogen using the normal pharmaceutically acceptable aids such as fillers, binders, disintegration means, colouring agents, flavours and lubricants, and bringing the mixture
- 10 into the form of a pharmaceutical moulding, or filling capsules therewith.

If required the combination-type preparation according to the invention can be supplemented by a number of placebos (6-10) in order to bridge the

- 15 period in which no active substances need to be administered, so that the daily habit of swallowing a tablet does not need to be interrupted and it is only necessary to remember to start a new cycle after withdrawal bleeding, i.e. to start a new
- 20 packaging unit (strip).

It is recommended that the placebos and the tablets in the three phases be distinguished from each other by giving them different shape and/or colour.

25 Preferably date indications should be provided on the packagings in which the preparation according to the invention is packed, indicating on what date in the cycle the pharmaceutical moulding corresponding with the date indication should be taken.

30 The combination-type preparation can be packed in a tube or box or in strip packaging. In the event of a small box being used which can have circular, square or other shape, the tablets are accommodated separately therein, usually along the periphery of 35 the box, and a series of date indications, either