United States Patent [19] [11] Aoki

Patent Number: Des. 319,201 Date of Patent: ****** Aug. 20, 1991 [45]

- **MAGNETIC FASTENER FOR CLOTHING** [54]
- Inventor: Yoshihiro Aoki, Tokyo, Japan [75]
- [73] Assignee: Application Art Laboratories Co., Ltd., Tokyo, Japan
- [**] 14 Years Term:
- [21] Appl. No.: 51,587
- [22] Filed: May 20, 1987 -

FIG. 6 is a front elevational view of the rear member of FIG. 4, shown separately for clarity of illustration; FIG. 7 is a top plan view thereof; FIG. 8 is a rear elevational view thereof; FIG. 9 is a left side elevational view thereof; FIG. 10 is a cross-sectional view thereof, taken on line **10—10** of FIG. 6; FIG. 11 is a rear elevational view of the front member of FIG. 3, shown separately for clarity of illustration: FIG. 12 is a top plan view thereof; FIG. 13 is a front elevational view thereof: FIG. 14 is a left side elevational view thereof; FIG. 15 is a cross-sectional view thereof, taken on line

Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 631,836, Jul. 17, 1984, abandoned, and a continuation-in-part of Ser. No. 705,802, Feb. 26, 1985, abandoned.

[30] Foreign Application Priority Data

Feb.	22, 1984	[JP]	Japan	•••••		59-6466
Aug.	29, 1984	[JP]	Japan			. 59-35952
[52]	U.S. Cl.	•••••	•••••			D11/220
[58]	Field of	Search			D11/200,	202, 220;
						24/303

[56]

References Cited

U.S. PATENT DOCUMENTS

2,798,273	7/1957	Meyer D)11/220
3,324,521	6/1967	Humiston	24/303
4,021,891	5/1977	Morita	24/303
4,480,361	11/1984	Morita	24/303
4,505,007	3/1985	Aoki	24/303

Primary Examiner—Louis S. Zarfas Assistant Examiner-R. T. Seifert

15—15 of FIG. 13;

FIG. 16 is a cross-sectional view taken on line 16–16 of FIG. 4 showing the magnetic fastener applied to clothing, the broken lines indicating fragmentary pieces of fabric being shown for illustrative purposes only; FIG. 17 is a front elevational view of a magnetic fastener for clothing, showing a second embodiment of my

new design;

FIG. 18 is a top plan view thereof;

FIG. 19 is a rear elevational view thereof;

FIG. 20 is a right side elevational view thereof;

FIG. 21 is a front elevational view of one part of the magnetic fastener of FIG. 20, shown separately for clarity of illustration;

FIG. 22 is a top plan view thereof;

FIG. 23 is a rear elevational view thereof;

FIG. 24 is a right side elevational view thereof;

FIG. 25 is a front elevational view of the other part of the magnetic fastener of FIG. 20, shown separately for clarity;

FIG. 26 is a top plan view thereof; FIG. 27 is a rear elevational view thereof; FIG. 28 is a right side elevational view thereof; FIG. 29 is an enlarged perspective view of the other part of the magnetic fastener as shown in FIGS. 25-28; FIG. 30 is an enlarged perspective view of the one part of the magnetic fastener as shown in FIGS. 21-24; FIG. 31 is an enlarged perspective view of the magnetic fastener as shown in FIGS. 1-4; and FIG. 32 is an enlarged exploded perspective view of the fastener with a section cut through the middle. The broken line showing of clothing and fitting rings in FIG. 32 is for illustrative purposes only and forms no part of the claimed design. The broken line showing of fitting rings in FIGS. 16 and 32 is for illustrative purposes only and forms no part of the claimed design.

Attorney, Agent, or Firm-Wenderoth, Lind & Ponack

[57] CLAIM

The ornamental design for a magnetic fastener for clothing, as shown and described.

DESCRIPTION

FIG. 1 is a left side elevational view of a magnetic fastener for clothing, showing a first embodiment of my new design.

FIG. 2 is a top plan view thereof;

FIG. 3 is a front elevational view thereof;

FIG. 4 is a rear elevational view thereof;

FIG. 5 is a cross-sectional view thereof, taken on line 5—5 of FIG. 3.







•

•



.

.

FIG 16

.

1



•

•

.

Aug. 20, 1991

.

Sheet 2 of 8

. .

Des. 319,201

.

· · ·

FIG 8

.



.

FIG 6 .

· .

•

•







.

.



FIG 10

,

٠

.

.



•

•

.

.

•

•

.

•

.

.

•

. .

· · .

.

Aug. 20, 1991

. .

.

FIG 13 FIG 11

Sheet 3 of 8

. .

•

.

Des. 319,201

•

-



FIG



.

. .

. . .



FIG 15



.

.

.

.

.

.

٠

.

.

.

Aug. 20, 1991

Sheet 4 of 8

Des. 319,201

•

.

•

.

FIG 19

FIG 17





FIG 18

.

•



FIG 20



.

.

• ·

· . .

•

. . .

.

.

•

Aug. 20, 1991

. .

Sheet 5 of 8

Des. 319,201

FIG 23

•

.



FIG 21



.

•

.

FIG 22

FIG 24

.

•

.



. ▪

•



.

•

•

•

.

.

Aug. 20, 1991

Sheet 6 of 8

Des. 319,201

· ·

FIG 25

FIG 27





. .

FIG 28

FIG 26

.

· · ·

· · ·

•

· · ·

.

• ·

.

.

Aug. 20, 1991

.

Sheet 7 of 8

Des. 319,201

.

.

.

.

.

•

. . .

FIG 29



. -

· .

.

.

.

.

•

.

FIG 30



FIG 31



. .

. .

.

•

•

.

.

.

.

.

. .

.

Aug. 20, 1991

.

. .

.

.

Sheet 8 of 8

Des. 319,201 .

.

.

.

٠

•

37

.



•

. • .

•

. •

. . · · ·

. . · · · .