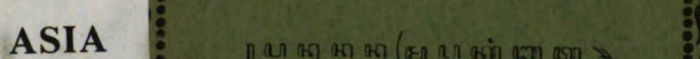
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Het auteursrecht voorbehouden ingevolge artikel 11 van de Wet in Staatsblad 1912 No. 600.

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PANOENTOEN TOEMRAP TOEKANG BATOE

ANGGITANÉ TOEWAN

H. VLIEGENTHART.

WEDALAN
BALÉ POESTAKA.

DRUKKERIJ VOLKSLECTUUR — WELTEVREDEN 1922.

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ตามรูป ๑ ตามรูปนี้ ถ้าเราเอาปลายข้างหนึ่งของเส้นลวดเหล็กกล้าที่ตรงแล้วนี้ ไปแตะกับขั้วของแบตเตอรี่ 3 หรือ 4 ก้อน ที่ต่อกันอยู่ ปลายอีกข้างหนึ่งของเส้นลวดเหล็กกล้านี้ ก็ไปแตะกับขั้วของแบตเตอรี่ก้อนสุดท้ายที่ต่อกันอยู่ ดังนี้ เส้นลวดเหล็กกล้านี้ก็จะกลายเป็นแม่เหล็กไฟฟ้าขึ้นมา ซึ่งเราเรียกว่า strengpers machine ปลายข้างหนึ่งของเส้นลวดเหล็กกล้านี้ ก็จะเป็นขั้วเหนือ ส่วนปลายอีกข้างหนึ่งก็จะเป็นขั้วใต้ ดังนี้

ในการที่เราจะเอาเส้นลวดเหล็กกล้าที่ตรงแล้วนี้ ไปแตะกับขั้วของแบตเตอรี่นั้น เราจะต้องเอาปลายข้างหนึ่งของเส้นลวดเหล็กกล้านี้ ไปแตะกับขั้วของแบตเตอรี่ก้อนแรกที่ต่อกันอยู่ ก่อน แล้วจึงเอาปลายอีกข้างหนึ่งของเส้นลวดเหล็กกล้านี้ ไปแตะกับขั้วของแบตเตอรี่ก้อนสุดท้ายที่ต่อกันอยู่ ทั้งนี้ เพราะว่าถ้าเราเอาปลายข้างหนึ่งของเส้นลวดเหล็กกล้านี้ ไปแตะกับขั้วของแบตเตอรี่ก้อนสุดท้ายที่ต่อกันอยู่ ก่อนแล้ว ปลายอีกข้างหนึ่งของเส้นลวดเหล็กกล้านี้ ก็จะไปแตะกับขั้วของแบตเตอรี่ก้อนแรกที่ต่อกันอยู่ ทันที ซึ่งจะทำให้เกิดกระแสไฟฟ้าลัดวงจรขึ้น ทำให้แบตเตอรี่ทั้งหมดเสียไปโดยเปล่าประโยชน์ ดังนี้

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ပဲတောကျွဲ ကျွဲကိုမောင်းရာတွင် ပုဆိုးကိုခါးတွင်ကြိုးသဖွယ်ပတ်ထားပြီး ကြိုးစည်းပုံမှာ ပုဆိုးကိုခါးတွင်ပတ်ပြီးနောက် ဘယ်ဘက်ခြေထောက်ကိုပုဆိုးအောက်မှ ဖြတ်ကာ ဘယ်ဘက်ခြေထောက်ကိုပုဆိုးအပေါ်မှ ဖြတ်ကာ ပုဆိုးကိုခါးတွင်ပတ်ထားသော ပုဆိုးကိုယ်ထည်ကြိုးကို

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ရေးမြို့ပေါ်တွင်ထွက်သောကြောင့် ဤဆေးကို (Portland cement) ဟုခေါ်ဆိုကြသည်။ ဤဆေးမြီးရေးမြို့ပေါ်တွင်ထွက်သောကြောင့် ထိုမြို့၏အမည်ကို Portland ဟုခေါ်ဆိုကြသည်။

ဤဆေးမြီးသည် ရေးမြို့ပေါ်တွင်ထွက်သော ကျောက်မြစ်ကို မီးဖုတ်၍ ကြိတ်ခွဲထားသော အမှုန့်ဖြစ်သည်။ ဤကျောက်မြစ်သည် ကျောက်ဂွမ်းကျောက်နှင့် ဆင်တူသော်လည်း ကျောက်ဂွမ်းကျောက်ထက် ပိုမို၍ ခိုင်မာသည်။ ဤကျောက်မြစ်ကို မီးဖုတ်ရာတွင် ကျောက်မြစ် ၁ တန်ကို ကျောက်မီးသွေး ၁ တန်နှင့် ရောစပ်၍ ဖုတ်ကြသည်။ ဤသို့ဖုတ်ရာတွင် ကျောက်မီးသွေး ၁ တန်သည် ကျောက်မြစ် ၁ တန်ကို ဖုတ်ရန် မလုံလောက်ပါ။ ကျောက်မီးသွေး ၁ တန်သည် ကျောက်မြစ် ၄ တန်ကို ဖုတ်ရန် လုံလောက်သည်။ ဤဆေးမြီးကို ဖုတ်ရာတွင် ကျောက်မီးသွေးကို ကျောက်မြစ်နှင့် ရောစပ်၍ ဖုတ်ကြသည်။ ကျောက်မီးသွေးကို ကျောက်မြစ်နှင့် ရောစပ်၍ ဖုတ်ကြသ

ସମ୍ବାଦ ଦେଇଥିଲେ । ଏହି ସମୟରେ ଜଣେ ଅଜ୍ଞାତ ବ୍ୟକ୍ତି ଆସି ଏକ ଚିଠି ଦେଇଥିଲା । ଚିଠିଟି ପଢ଼ିବା ପରେ ଜଣେ ଅଜ୍ଞାତ ବ୍ୟକ୍ତି ଆସି ଏକ ଚିଠି ଦେଇଥିଲା । ଚିଠିଟି ପଢ଼ିବା ପରେ ଜଣେ ଅଜ୍ଞାତ ବ୍ୟକ୍ତି ଆସି ଏକ ଚିଠି ଦେଇଥିଲା । ଚିଠିଟି ପଢ଼ିବା ପରେ ଜଣେ ଅଜ୍ଞାତ ବ୍ୟକ୍ତି ଆସି ଏକ ଚିଠି ଦେଇଥିଲା । ଚିଠିଟି ପଢ଼ିବା ପରେ ଜଣେ ଅଜ୍ଞାତ ବ୍ୟକ୍ତି ଆସି ଏକ ଚିଠି ଦେଇଥିଲା । ଚିଠିଟି ପଢ଼ିବା ପରେ ଜଣେ ଅଜ୍ଞାତ ବ୍ୟକ୍ତି ଆସି ଏକ ଚିଠି ଦେଇଥିଲା । ଚିଠିଟି ପଢ଼ିବା ପରେ ଜଣେ ଅଜ୍ଞାତ ବ୍ୟକ୍ତି ଆସି ଏକ ଚିଠି ଦେଇଥିଲା । ଚିଠିଟି ପଢ଼ିବା ପରେ ଜଣେ ଅଜ୍ଞାତ ବ୍ୟକ୍ତି ଆସି ଏକ ଚିଠି ଦେଇଥିଲା । ଚିଠିଟି ପଢ଼ିବା ପରେ ଜଣେ ଅଜ୍ଞାତ ବ୍ୟକ୍ତି ଆସି ଏକ ଚିଠି ଦେଇଥିଲା ।

ଚତୁର୍ଥ ଅଧ୍ୟାୟ

ଏହି ସମୟରେ ଜଣେ ଅଜ୍ଞାତ ବ୍ୟକ୍ତି ଆସି ଏକ ଚିଠି ଦେଇଥିଲା । ଚିଠିଟି ପଢ଼ିବା ପରେ ଜଣେ ଅଜ୍ଞାତ ବ୍ୟକ୍ତି ଆସି ଏକ ଚିଠି ଦେଇଥିଲା । ଚିଠିଟି ପଢ଼ିବା ପରେ ଜଣେ ଅଜ୍ଞାତ ବ୍ୟକ୍ତି ଆସି ଏକ ଚିଠି ଦେଇଥିଲା । ଚିଠିଟି ପଢ଼ିବା ପରେ ଜଣେ ଅଜ୍ଞାତ ବ୍ୟକ୍ତି ଆସି ଏକ ଚିଠି ଦେଇଥିଲା । ଚିଠିଟି ପଢ଼ିବା ପରେ ଜଣେ ଅଜ୍ଞାତ ବ୍ୟକ୍ତି ଆସି ଏକ ଚିଠି ଦେଇଥିଲା । ଚିଠିଟି ପଢ଼ିବା ପରେ ଜଣେ ଅଜ୍ଞାତ ବ୍ୟକ୍ତି ଆସି ଏକ ଚିଠି ଦେଇଥିଲା । ଚିଠିଟି ପଢ଼ିବା ପରେ ଜଣେ ଅଜ୍ଞାତ ବ୍ୟକ୍ତି ଆସି ଏକ ଚିଠି ଦେଇଥିଲା ।

ପଞ୍ଚମ ଅଧ୍ୟାୟ — ଉପସଂହାର

ଏହି ସମୟରେ ଜଣେ ଅଜ୍ଞାତ ବ୍ୟକ୍ତି ଆସି ଏକ ଚିଠି ଦେଇଥିଲା । ଚିଠିଟି ପଢ଼ିବା ପରେ ଜଣେ ଅଜ୍ଞାତ ବ୍ୟକ୍ତି ଆସି ଏକ ଚିଠି ଦେଇଥିଲା । ଚିଠିଟି ପଢ଼ିବା ପରେ ଜଣେ ଅଜ୍ଞାତ ବ୍ୟକ୍ତି ଆସି ଏକ ଚିଠି ଦେଇଥିଲା । ଚିଠିଟି ପଢ଼ିବା ପରେ ଜଣେ ଅଜ୍ଞାତ ବ୍ୟକ୍ତି ଆସି ଏକ ଚିଠି ଦେଇଥିଲା । ଚିଠିଟି ପଢ଼ିବା ପରେ ଜଣେ ଅଜ୍ଞାତ ବ୍ୟକ୍ତି ଆସି ଏକ ଚିଠି ଦେଇଥିଲା । ଚିଠିଟି ପଢ଼ିବା ପରେ ଜଣେ ଅଜ୍ଞାତ ବ୍ୟକ୍ତି ଆସି ଏକ ଚିଠି ଦେଇଥିଲା । ଚିଠିଟି ପଢ଼ିବା ପରେ ଜଣେ ଅଜ୍ଞାତ ବ୍ୟକ୍ତି ଆସି ଏକ ଚିଠି ଦେଇଥିଲା ।

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[illegible]

[illegible]

[illegible]

[illegible] 1, [illegible] 1, [illegible] ± 0,5 [illegible] ([illegible]) [illegible]
[illegible]:

[illegible] 1, [illegible] 1, [illegible] 1, [illegible] ± 0,7 [illegible].

[illegible]

[illegible] 1, [illegible] 1, [illegible] ± 0,3 [illegible].

[illegible]

[illegible] 1, [illegible] 1, [illegible] 1, [illegible] ± 0,4 [illegible].

[illegible]

[illegible] 1, [illegible] 2 a 2½ [illegible] ± 0.5 [illegible] [illegible]:
[illegible] 1, [illegible] 3 [illegible] ± 0,6 [illegible].

[illegible]

[illegible] 1, [illegible] 0,5, [illegible] 5, [illegible] 1 [illegible].
[illegible]

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ಅಪ್ಪಾಜಿಯವರು ಅಲ್ಲಿಂದ ಹೊರಟು ಬಂದರು. ಮತ್ತು ಅವರು ಬಂದ ಮೇಲೆ ಅವರ ಮಗನಾದ ಸಿದ್ಧಲಿಂಗಯ್ಯನವರು ಅಲ್ಲಿಗೆ ಹೋಗಿ ಅಲ್ಲಿಯೇ ಇದ್ದರು.

ಈ ಮಠದ ಸ್ಥಾಪನೆಯ ವಿಷಯವಾಗಿ ಅಲ್ಲಿಯ ಜನರಲ್ಲಿ ಹಲವು ಕಥೆಗಳು ಪ್ರಚಲಿತವಿವೆ. ಅವುಗಳಲ್ಲಿ ಒಂದು ಕಥೆಯು ಹೀಗಿದೆ. ಪೂರ್ವದಲ್ಲಿ ಒಬ್ಬ ಬ್ರಾಹ್ಮಣನು ಈ ಸ್ಥಳದಲ್ಲಿ ಒಂದು ಹಾಳು ಬಾವಿಯನ್ನು ಕಂಡು ಅದನ್ನು ಶುದ್ಧಮಾಡಿಸಿ ಅದರಲ್ಲಿ ಸ್ನಾನಮಾಡಿ ಹೋದನು. ಆ ಬಾವಿಯ ನೀರಿನಲ್ಲಿ ಸ್ನಾನಮಾಡಿದವರಿಗೆ ಕುಷ್ಠರೋಗವು ಪರಿಹಾರವಾಗುತ್ತಿತ್ತು.

ಬಿಜಾಪುರದಲ್ಲಿ ಆದಿಲಶಾಹಿ ಅರಸರ ಆಳ್ವಿಕೆಯಲ್ಲಿ ಮಹಮ್ಮದ ಪೈಗಂಬರರ ಕೂದಲನ್ನು ಇಟ್ಟಿದ್ದರು. ಅದನ್ನು ನೋಡಲು ಬಹಳ ಜನರು ಬರುತ್ತಿದ್ದರು. ಅವರಿಗೆ ಅಲ್ಲಿ ಊಟ ಮಾಡಿಸುವ ಏರ್ಪಾಡು ಇತ್ತು. ಅದಕ್ಕಾಗಿ ಅಲ್ಲಿ ಒಂದು ಅನ್ನಛತ್ರವಿತ್ತು. ಅದಕ್ಕೆ ಬೇಕಾದ ಧಾನ್ಯಗಳು ಮುಂತಾದವು ಸರಕಾರದಿಂದ ಬರುತ್ತಿದ್ದವು. ಅದಕ್ಕೆ ಸಂಬಂಧಪಟ್ಟ ಕೆಲಸಗಾರರಿಗೆ ಸರಕಾರದಿಂದ ಸಂಬಳವು ಕೊಡಲ್ಪಡುತ್ತಿತ್ತು. ಅನ್ನಛತ್ರದ ಮೇಲ್ವಿಚಾರಕನಿಗೆ ತಿಂಗಳಿಗೆ 1, ಬಿಡಿ 4, ಆ 6. ಅಡಿಗೆಯವನಿಗೆ 6 ಆ 8. ಮಾಣಿಯವನಿಗೆ

ಅಲ್ಲಿಯ ಮಾಣಿಯವರಲ್ಲಿ ಮೂರು ಜಾತಿಯವರು. ಮೊದಲನೆಯವರು 1ಬಿಡಿ 3, ಎರಡನೆಯವರು 5 ಮಾಣಿಯವರು. ಮೊದಲನೆಯವರು ಎರಡನೆಯವರಿಗೆ 1 ಮಾಣಿಯವರು.

ಆ ಅನ್ನಛತ್ರದಲ್ಲಿ ಪ್ರತಿದಿನವೂ ಬೆಳಿಗ್ಗೆ ಮತ್ತು ಸಾಯಂಕಾಲ ಊಟವಿರುತ್ತಿತ್ತು. ಅಕ್ಕಿ 1, ಬೇಳೆ 1, ಬಿಡಿ 1, ಮತ್ತು ತರಕಾರಿಯವರು 8 ಮಾಣಿಯವರು.

ಅಲ್ಲಿಯ ಮಾಣಿಯವರಲ್ಲಿ ಒಂದು ಪದ್ಧತಿಯಿತ್ತು. ಯಾವುದಾದರೂ ಒಂದು ಕೆಲಸವನ್ನು ಮಾಡಿಸಿಕೊಳ್ಳಲು ಅವರಿಗೆ ಹಣವನ್ನು ಕೊಡಬೇಕಾಗಿತ್ತು. ಅವರು ಹಣವನ್ನು ಕೊಡದಿದ್ದರೆ ಅವರು ಆ ಕೆಲಸವನ್ನು ಮಾಡುತ್ತಿರಲಿಲ್ಲ. ಅವರು ಹಣವನ್ನು ಕೊಟ್ಟರೆ ಅವರು ಆ ಕೆಲಸವನ್ನು ಮಾಡಿಕೊಡುತ್ತಿದ್ದರು. ಅವರು ಹಣವನ್ನು ಕೊಟ್ಟರೆ ಅವರು ಆ ಕೆಲಸವನ್ನು ಮಾಡಿಕೊಡುತ್ತಿದ್ದರು. ಅವರು ಹಣವನ್ನು ಕೊಟ್ಟರೆ ಅವರು ಆ ಕೆಲಸವನ್ನು ಮಾಡಿಕೊಡುತ್ತಿದ್ದರು.

ಅಲ್ಲಿಯ ಮಾಣಿಯವರಲ್ಲಿ ಒಂದು ಪದ್ಧತಿಯಿತ್ತು. ಯಾವುದಾದರೂ ಒಂದು ಕೆಲಸವನ್ನು ಮಾಡಿಸಿಕೊಳ್ಳಲು ಅವರಿಗೆ ಹಣವನ್ನು ಕೊಡಬೇಕಾಗಿತ್ತು.

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ꠇꠣꠞ ꠇꠤꠞꠣ ꠉꠊ ꠊꠤꠑꠣꠑꠣ ꠊꠤꠑꠣꠑꠣ ꠇꠣꠞ ꠇꠤꠞꠣ ꠉꠊ

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ಗಾಥೆ 13, ಯಿಂ ಅನ್ವಯ ಯಿಂ ಅನ್ನ ಪ್ರಾಣಿಗಳ ಕೊಲೆ ಮಾಡಿ ಅವುಗಳ ಮಾಂಸವನ್ನು ತಿನ್ನುವ ಪಾಪ ಇಲ್ಲ ಎಂದು ಹೇಳಿದ್ದಾರೆ. ಆದರೆ ಇದು ಸರಿಯಲ್ಲ. ಯಾಕೆಂದರೆ ಯಜ್ಞ ಯಾಗಾದಿಗಳಲ್ಲಿ ಪ್ರಾಣಿಗಳನ್ನು ಕೊಲ್ಲುವುದು ಪಾಪ ಎಂದು ಗಾಥೆ 13 ಹೇಳಿದೆ. ಗಾಥೆ 12 ಹೇಳಿದೆ.

ಬ್ರಾಹ್ಮಣರು ಅನ್ನ ಮಾಂಸಗಳನ್ನು ತಿನ್ನುವುದು ಪಾಪವಲ್ಲ ಎಂದು ಹೇಳಿದ್ದಾರೆ. ಆದರೆ ಇದು ಸರಿಯಲ್ಲ. ಯಾಕೆಂದರೆ ಅವರು ಯಜ್ಞ ಯಾಗಾದಿಗಳಲ್ಲಿ ಪ್ರಾಣಿಗಳನ್ನು ಕೊಲ್ಲುತ್ತಾರೆ. ಗಾಥೆ 14, 15 ಮತ್ತು 16.

ಗಾಥೆ 14 ಯಿಂ ಅನ್ವಯ ಮಾಂಸ ತಿನ್ನುವುದು ಪಾಪವಲ್ಲ. ಆದರೆ ಮಾಂಸಕ್ಕಾಗಿ ಪ್ರಾಣಿಗಳನ್ನು ಕೊಲ್ಲುವುದು ಪಾಪ. ಮಾಂಸಕ್ಕಾಗಿ ಪ್ರಾಣಿಗಳನ್ನು ಕೊಲ್ಲುವುದು ಪಾಪವಲ್ಲ ಎಂದು ಹೇಳುವವರು ಯಜ್ಞ ಯಾಗಾದಿಗಳಲ್ಲಿ ಪ್ರಾಣಿಗಳನ್ನು ಕೊಲ್ಲುತ್ತಾರೆ. ಆದುದರಿಂದ ಅವರು ಪಾಪಿಗಳಾಗುತ್ತಾರೆ. ಅವರು ಮುಂದಿನ ಜನ್ಮದಲ್ಲಿ ನರಕಕ್ಕೆ ಹೋಗುತ್ತಾರೆ. ಅವರು ಮಾಡಿದ ಪಾಪ ಕರ್ಮಗಳು ಅವರನ್ನು ಹಿಂಬಾಲಿಸಿ ಹೋಗಿ ಅವರು ನರಕದಲ್ಲಿ ಬಹಳ ಕಾಲ ಶಿಕ್ಷೆ ಅನುಭವಿಸುವಂತೆ ಮಾಡುತ್ತವೆ.

ಬ್ರಾಹ್ಮಣರು ಮಾಂಸಕ್ಕಾಗಿ ಪ್ರಾಣಿಗಳನ್ನು ಕೊಲ್ಲುವುದು ಪಾಪವಲ್ಲ ಎಂದು ಹೇಳಿದ್ದಾರೆ. ಆದರೆ ಇದು ಸರಿಯಲ್ಲ. ಯಾಕೆಂದರೆ ಅವರು ಯಜ್ಞ ಯಾಗಾದಿಗಳಲ್ಲಿ ಪ್ರಾಣಿಗಳನ್ನು ಕೊಲ್ಲುತ್ತಾರೆ.

ಬ್ರಾಹ್ಮಣರು ಮಾಂಸಕ್ಕಾಗಿ ಪ್ರಾಣಿಗಳನ್ನು ಕೊಲ್ಲುವುದು ಪಾಪವಲ್ಲ ಎಂದು ಹೇಳಿದ್ದಾರೆ. ಆದರೆ ಇದು ಸರಿಯಲ್ಲ. ಯಾಕೆಂದರೆ ಅವರು ಯಜ್ಞ ಯಾಗಾದಿಗಳಲ್ಲಿ ಪ್ರಾಣಿಗಳನ್ನು ಕೊಲ್ಲುತ್ತಾರೆ. ಆದುದರಿಂದ ಅವರು ಪಾಪಿಗಳಾಗುತ್ತಾರೆ.

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ततो मुनिः सर्वमुवाच तत्त्वं तस्मै नृपायाप्रतिमप्रभावः ।
यत्तत्र तत्रास्य पुरे पुराणं तत्सर्वमाख्यातुमुपक्रमे सः ॥

तत्रादिमो यः पुरुषः पुराणः स्वयम्भुवो यं प्रथमं प्रसूते ।
यस्मिन्निदं विश्वमशेषमोतं प्रोतं च सूत्रे मणिगणा इवाहुः ॥

तस्मिन्नपो वै प्रथमं ससर्ज तासु स्वशक्तिं पुरुषं निषिच्य ।
ततो विराट्तस्य तनुं विचक्रे यां कर्मभूमिं प्रवदन्ति तज्ज्ञाः ॥

तस्यां च मेरुं जठरं च कुक्षिं सप्तापि सप्तापि च सिन्धुभेदान् ।
द्वीपान्तराण्यन्तरवर्षशैलान् सृष्ट्वा पुरं भूर्भुवरादिकं च ॥

ततः परं सोऽसृजदग्रमात्मनः सर्वस्य लोकस्य च धर्मिलानाम् ।
यत्तत्र तत्रास्य पुरे पुराणं तत्सर्वमाख्यातुमुपक्रमे सः ॥

॥ इति श्रीविष्णुपुराणे प्रथमांशे तृतीयोऽध्यायः ॥ ३ ॥

॥ तत्रादिमो यः पुरुषः पुराणः स्वयम्भुवो यं प्रथमं प्रसूते ।
यस्मिन्निदं विश्वमशेषमोतं प्रोतं च सूत्रे मणिगणा इवाहुः ॥

तस्मिन्नपो वै प्रथमं ससर्ज तासु स्वशक्तिं पुरुषं निषिच्य ।
ततो विराट्तस्य तनुं विचक्रे यां कर्मभूमिं प्रवदन्ति तज्ज्ञाः ॥

तस्यां च मेरुं जठरं च कुक्षिं सप्तापि सप्तापि च सिन्धुभेदान् ।
द्वीपान्तराण्यन्तरवर्षशैलान् सृष्ट्वा पुरं भूर्भुवरादिकं च ॥

ततः परं सोऽसृजदग्रमात्मनः सर्वस्य लोकस्य च धर्मिलानाम् ।
यत्तत्र तत्रास्य पुरे पुराणं तत्सर्वमाख्यातुमुपक्रमे सः ॥

॥ इति श्रीविष्णुपुराणे प्रथमांशे तृतीयोऽध्यायः ॥ ३ ॥

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peil, et on fait ensuite la même opération pour les autres. Si l'on veut avoir des lignes de niveau, on prend un point de départ, on mesure 1,10 M. au-dessus du peil, et on marque ce point; on fait la même opération pour tous les autres points, et on obtient ainsi une ligne de niveau à 1,10 M. au-dessus du peil.

Nivellement à vue.

Le nivellement à vue est employé pour les travaux de peu d'importance, pour les terrassements des routes, pour les fossés, etc. Il consiste à déterminer, à vue d'œil, les différences de niveau entre les différents points d'une ligne, et à les marquer par des piquets. Pour cela, on se place à 0,60 à 1,20 M. en arrière du point de départ, on vise le point suivant, et on plante un piquet à la rencontre du rayon visuel avec le terrain. On se place ensuite à la même distance en arrière du second point, on vise le troisième, et on plante un piquet à la rencontre du rayon visuel avec le terrain, et ainsi de suite. Les piquets sont plantés à 2½ à 4 mètres les uns des autres. Ils ont généralement 0,30 de hauteur au-dessus du terrain.

Pour déterminer la différence de niveau entre deux points, on se place à égale distance de ces deux points, on vise successivement sur chacun d'eux, et on mesure la différence de hauteur des deux points de visée.

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4 à 6 m. M. 3 à 5 m. M.

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॥ अथ तत्रादौ पञ्चाङ्गलक्षणमाह ॥

॥ तिथिर्वारश्च नक्षत्रं योगः करण एव च ॥
पञ्चाङ्गमुच्यते सद्भिः पञ्चाङ्गं शुभकर्मसु ॥ १ ॥

॥ तत्र तिथिः ॥

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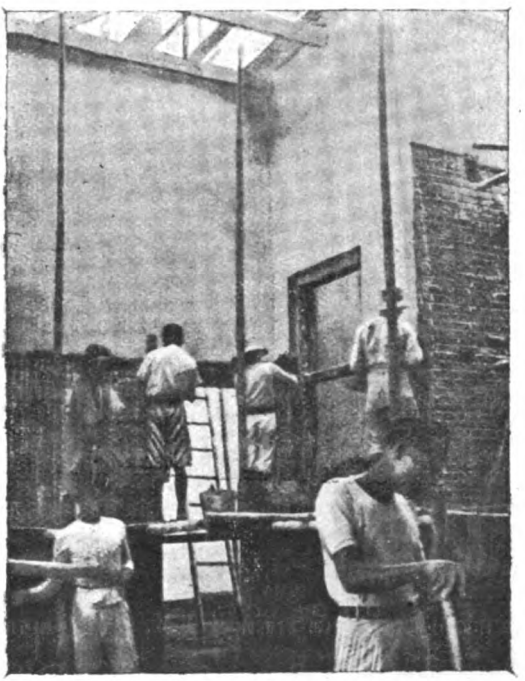
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॥ ꣡ꣳ꣥ꣴ꣦ꣵ꣧ꣶ꣨ꣷ꣩꣸ ꣪꣹꣫꣺꣬ꣻ꣭꣼ ꣮ꣽ꣯ꣾ꣰ꣿ ॥

॥ ꣡ꣳ꣥ꣴ꣦ꣵ꣧ꣶ꣨ꣷ꣩꣸ ꣪꣹꣫꣺꣬ꣻ꣭꣼ ꣮ꣽ꣯ꣾ꣰ꣿ ॥ 5



॥ ꣡ꣳ꣥ꣴ꣦ꣵ꣧ꣶ꣨ꣷ꣩꣸ ꣪꣹꣫꣺꣬ꣻ꣭꣼ ꣮ꣽ꣯ꣾ꣰ꣿ ॥

॥ ꣡ꣳ꣥ꣴ꣦ꣵ꣧ꣶ꣨ꣷ꣩꣸ ꣪꣹꣫꣺꣬ꣻ꣭꣼ ꣮ꣽ꣯ꣾ꣰ꣿ ॥

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[illegible] 3—5 c. M. [illegible] $1^1/_2$ à 2 c. M.

[illegible]

[illegible] 3 c. M. [illegible]

[illegible]

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[illegible]

[illegible] 1 á 1.50 M. [illegible] 1.50 á 2 M. [illegible]

[illegible] 1.50 á 2 M. [illegible]

[illegible] 94 [illegible] 3 [illegible] 4 [illegible] ½ [illegible] 7 à 10 c. M. [illegible]

[illegible]

[illegible] 40 à 60 c. M. [illegible]

[illegible]

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[illegible] ± 30 c.M. [illegible] (hu hu) [illegible]

[illegible]

[illegible] 98 [illegible]

[illegible] 1 M. [illegible] 5 c.M.

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[illegible]

[illegible] 100 [illegible] 10 à 15 c. M. [illegible] 99. [illegible] ± 3 c. M.

[illegible] 101 [illegible]

[illegible]

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[illegible]

[illegible] ± 10 c.M. [illegible]

[illegible] 1 c.M.

[illegible]

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ကြက်ဖြူ ကြက်ဖြူသည် ကြက်ဖြူ ကြက်ဖြူ ကြက်ဖြူ

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[illegible] ± 40 c.M. [illegible]

[illegible] 104 [illegible]

[illegible] 105 [illegible]

[illegible] 106 [illegible]

[illegible] ± 2 M. [illegible] 1 ½. [illegible] 2 [illegible]

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ကြိုးတန်းအမှတ် 107 ကြိုးတန်းအကြားအဝေးသည် ကြိုးတန်းတစ်ခုမှ
အခြားကြိုးတန်းတစ်ခုသို့ ကြိုးတန်းမှတ်တိုင်းတစ်ခုမှ 40 c.M.
ခန့်ရှိသော်လည်း ± 30 c.M. ခန့်အထိ ကြိုးတန်းမှတ်တိုင်းတစ်ခုမှ
အခြားတစ်ခုသို့ ကြိုးတန်းအကြားအဝေးသည် ကွာခြားနိုင်ပါသည်
ဟုဆို၏။

ကြိုးတန်းတစ်ခုတွင် ကြိုးတန်းမှတ်တိုင်းပေါင်း မည်မျှရှိသည်
ဆိုသည်ကို (အကြိမ်ကြိမ်) ဟုဆို၏။

ကြိုးတန်းတစ်ခုတွင် ကြိုးတန်းမှတ်တိုင်းများ၊ ကြိုးတန်းများ
ကြိုးတန်းအကြားအဝေးသည် အမှတ် 108။

ကြိုးတန်းတစ်ခုတွင် ကြိုးတန်းအကြားအဝေးသည် ကြိုးတန်းမှတ်
တိုင်းတစ်ခုမှ အခြားတစ်ခုသို့ ± 2 M. ခန့်ရှိသော်လည်း ကြိုးတန်း
အစပ်အဆုံးတို့တွင် အနေအထားသည် 1.20 M. ခန့်ရှိ၏။

ကြိုးတန်းတစ်ခုတွင် ကြိုးတန်းမှတ်တိုင်းများ ကြိုးတန်းအစပ်
အဆုံးတို့တွင် ကြိုးတန်းမှတ်တိုင်းများ ကြိုးတန်းအလယ်
အလတ်တို့ကဲ့သို့ ခိုင်မာသည်ဟု ဆိုနိုင်ပါသလော။

ကြိုးတန်းတစ်ခုတွင် ကြိုးတန်းမှတ်တိုင်းများ ကြိုးတန်းအကြား
အဝေးသည် ကြိုးတန်းတစ်ခုမှ အခြားတစ်ခုသို့ ရှိသော်လည်း
ပုံစံတူသော်လည်းကောင်း၊ ကြိုးတန်းအကြားအဝေးသည် ကြိုးတန်း
အမှတ် 109။

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[illegible]

[illegible]

[illegible]

[illegible] M^3 [illegible] M^2 [illegible] 1 M^3 [illegible] 1 M^2 [illegible]

[illegible] [illegible] [illegible] [

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[illegible]

[illegible]

[illegible] :

[illegible]	[illegible]	1 M³	[illegible]	0,50 M³.
[illegible]	„ „	1 M³	„	0,50 M³.
[illegible]	„ „	1 M³	„	1,— M³.
[illegible]	„ „	1 M³	„	0,70 M³.
[illegible]	„ „	1 M³	„	0,60 M³.
[illegible]	„ „	1 M³	„	0,50 M³.

[illegible]

[illegible]	1 M³ = 8,5 [illegible]	[illegible]	*f* 100,—
[illegible]	1 M³	„	35,—
[illegible]	1 M³	„	12,—
[illegible]	1 M³	„	8,—
[illegible]	1 M³	„	6,—
[illegible]	1 M³	„	3,—

[illegible]

[illegible] 1 M³ [illegible] *f* 1,20

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1e. ပစ္စည်းတစ်ခုအတွက်ကုန်ကျစရိတ်ခန့်မှန်းခြင်း:

ကုန်ကြမ်းအမျိုးအစား	ထည့်ရန်	ကုန်ကျငွေ 1 M³
1 M³ သဲကျောက်	0,70 M³	f 8,—
1 M³ ဘိလပ်မြေ	0,60 M³	„ 3,—
0,5 M³ ရေစင်ကြယ်	0,50 M³	—
ထည့်ရန်ပမာဏအားလုံး	1,80 M³	f 11,—

(ပမာဏတွက်ချက်ပုံ) 1 M³ = f 11 : 1,8 + f 1,20 = f 7,30.

2e. ပစ္စည်းတစ်ခုတည်ဆောက်ရန်အတွက်ကုန်ကျစရိတ်ခန့်မှန်းခြင်း:

ကုန်ကြမ်းအမျိုးအစား		ထည့်ရန်	ကုန်ကျငွေ 1 M³.
သဲကျောက်	1 M³	0,70 M³	f 8,—
ကျိုက်ခဲသားရဲ	1 M³	0,50 M³	„ 6,—
ဘိလပ်မြေ	1 M³	0,60 M³	„ 3,—
ရေစင်ကြယ်	0,70 M³	0,70 M³	—
ထည့်ရန်ပမာဏအား		2,50 M³	f 1,7—

ပမာဏတိုးလျှော့ခြင်း 1 M³ = f 17 : 2,5 + f 12,0 = f 8.—

3e. ပစ္စည်းတစ်ခုတည်ဆောက်ရန်ကုန်ကျစရိတ်ခန့်မှန်းခြင်း:

ကုန်ကြမ်းအမျိုးအစား	ထည့်ရန်	ကုန်ကျငွေ
ကျိုက်ခဲသားရဲ	1 M³	0,50 M³	f 100,—
ဘိလပ်မြေ	2,5 M³	1,50 M³	„ 7,50
ရေစင်ကြယ်	0,6 M³	0,60 M³	—
		2,60 M³	f 107,50

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Gestehungspreis 1 M³ Mauerwerk $f\ 107{,}50 : 2{,}6 + f\ 1{,}20 = f\ 42{,}50$

Berechnung der Gestehungspreise:

Für Mauerwerk aus Bruchsteinen 1 M³ Bruchsteine ± 450 Stück à 0.4 M³ à Fuhrlohn pro Tag 1000 Stück à f 30.—

Maurerlohn pro Tag 1 M³ f 2.50

Für Mauerwerk aus Bruchsteinen 1 M³ Mauerwerk wie No. 1.

Steine 450	Stück	f 13,50
Mörtel 0.25 M³ à f 7.80 =		„ 1,85
Maurerlohn pro Tag		„ 2,50
Gestehungspreis 1 M³		f 17,85.

Für Mauerwerk aus Backsteinen wie No. 3.

Steine 450	Stück	f 13,50
Mörtel 0.25 M³ à f 42,50 =		„ 10,65
Maurerlohn pro Tag		„ 2,50
Gestehungspreis 1 M³		f 26,65

Für Mauerwerk aus Bruchsteinen wie No. 2.

Steine 1.2 M³	Stück	f 6,60
Mörtel 0.4 M³ à f 8.—	„	„ 3,20
Maurerlohn pro Tag		„ 3.—
Gestehungspreis 1 M³		f 12,80

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[illegible]

[illegible] 1 á 1,5 c.M. [illegible] 1 M² [illegible] 0,02 M³ [illegible] 3 á 5 L. [illegible] 1 M² [illegible] f 0.20 á f 0,25.

[illegible] No. 2.

[illegible] 0,02 M³ á f 8,— =	f 0,16
[illegible] 5 L.	„ 0,06
[illegible]	„ 0,20
[illegible] 1 M²	f 0,42

[illegible] No.3 [illegible]

[illegible]

0,02 M³ [illegible] á f 42.50 =	f 0,85
3 L. [illegible]	„ 0.30
[illegible]	„ 0,25
[illegible] 1 M²	f 1,40

[illegible] [illegible] f 0.25 á f 1.— [illegible] 1 M.

[illegible] 1000 f 60,—

[illegible] 1 M² [illegible] 20 [illegible]	f 1.20
[illegible]	„ 0.10
[illegible] 1 M²	f 1,30

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Metselwerk van ijzerhard (Eht) baksteen 1000	f 80,—
Aanbrengen 1 M² dezer soort van 22 baksteen	f 1,76
Gebruikelijke bijkomende uitgaven	„ 0,10
Samen 1 M²	f 1,86

Metselwerk van gewone (Gg) baksteen 1 baksteen	f 0,15
Aanbrengen 1 M. dezer soort van 4 baksteen	f 0,60
Mortel voor 1 M.	„ 0,10
Gebruikelijke bijkomende uitgaven	„ 0,20
Totaal voor 1 M.	f 0,90

Metselwerk van gewone (Gg) baksteen, in portlandcementmortel aangebracht

1 M. dezer soort 3 à. f 0,25 =	f 0,75
Mortel voor 1 M.	„ 0,10
Gebruikelijke bijkomende uitgaven	„ 0,20
Samen 1 M.	f 1,05

Betonwerk van een mengsel van 1 deel portlandcement, 2 delen zand en 4 delen steenslag, voor een dikte van 0,10 M. dezer soort (No. 2), aangebracht

Materialen:	f 3. aan	1 M²
Arbeid	1 M²	f 3.—
Cement:	0,1 M³	„ 0,30
Zand:	0,02 M³	„ 0,16
Steenslag:	0,5 L	„ 0,05

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Handwerksgewinn und Risiko	*f* 0,40
Gesamtpreis für	1 M³ *f* 3,91

Pflasterung mit Kopfsteinen, Fugen mit Kies gefüllt, 0,02 M. Sand darüber gestreut, Steine mit Hammer eingeschlagen und Fugen gefüllt.

Material:	1 M³ Steine à *f* 32 pro 1000 Stück	*f* 0,96
Sand	0,04 M³	„ 0,12
Arbeitslohn für Material	0,025 M³ à *f* 42,50	„ 1,06
Handwerksgewinn und Risiko		„ 0,40
Gesamtpreis für	1 M²	*f* 2,54

Pflasterung mit behauenen Steinen, 8 c. M. Fugen mit Mörtel gefüllt, Arbeitslohn für Material, Handwerksgewinn und Risiko inbegriffen.

Material für 1 Quadratmeter Pflasterung: 1 Teil 4 Teile Kies 6 Teile Steine

Material:		Gefüllt	Preis
Mörtel	1 M³	0,50 M³	*f* 100
Kies	4 M³	2,40 M³	„ 12—
Steine	6 M³	3, M³	„ 24—
Gemenge	1 M³	1, M³	„ —
		6,90 M³	*f* 136

Gesamtpreis für 1 M³ = *f* 136 : 6,9 — *f* 1,20 = *f* 21,—

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[illegible]	[illegible] 1 M²	[illegible]
[illegible]	0,1 M³	f 2,10
[illegible]	0,01 M³	„ 0,42⁵
[illegible]	[illegible]	„ 0,60
„	„ [illegible]	„ 0,20
[illegible]	1 M² [illegible]	f 3,32⁵

[illegible] 1 M² f 7,50

[illegible] 1 M² [illegible]	f 7,50
[illegible]	„ 0,20
[illegible]	„ 1,—
[illegible] 1 M² [illegible]	f 8,70

[illegible]

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100 M³	Aanvulgrond	f 0,25	f 25,—
10 M³	Diepbewerking	„ 3,—	„ 30,—
50 M³	Betonmortel in de fundeering	„ 13,—	„ 650,—
20 M³	Metselwerk in cementmortel	„ 30,—	„ 600,—
100 M³	Metselwerk in cementmortel	„ 17,50	„ 1750,—
300 M²	Stucwerk	„ 1,50	„ 450,—
40 M.	Aanleg	„ 1,—	„ 40,—
700 M²	Buitenbepleistering	„ 0,42	„ 294,—
100 M²	„ „ Binnenwerk	„ 1,40	„ 140,—
60 M.	Plint	„ 0,40	„ 24,—
100 M²	Dakpannen	„ 4,—	„ 400,—
60 M²	Dakbedekking	„ 2,50	„ 150,—
	Schoorsteenkap		„ 25,—
10 M³	Metselwerk in cementmortel	„ 4,50	„ 45,—
		Totaal	f 4623,—

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Fig. 1.

Fig. 2.

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N° 1



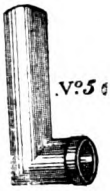
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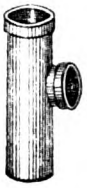
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N°4



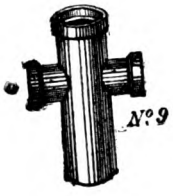
N°5



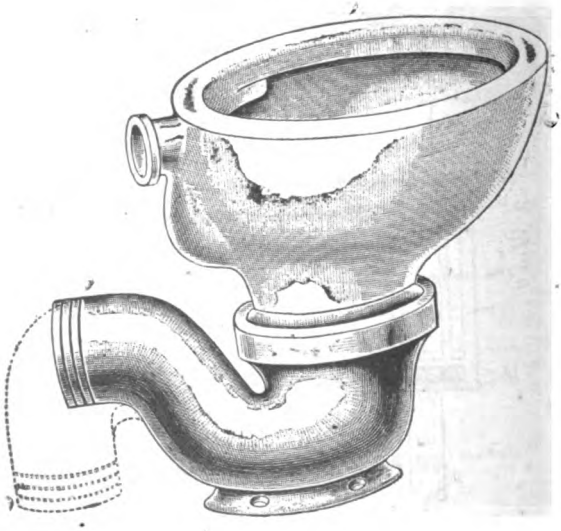
N°6



N°7



N°9



N° 4

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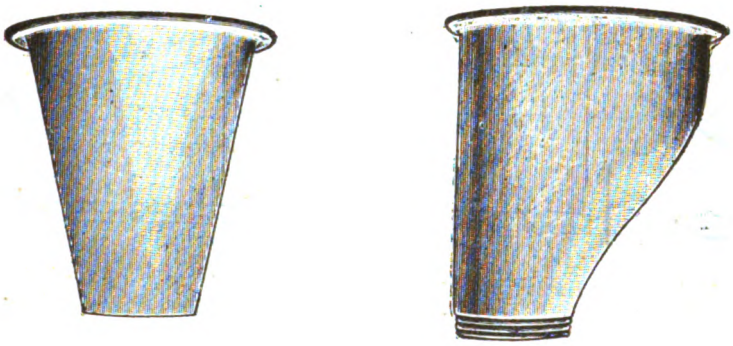
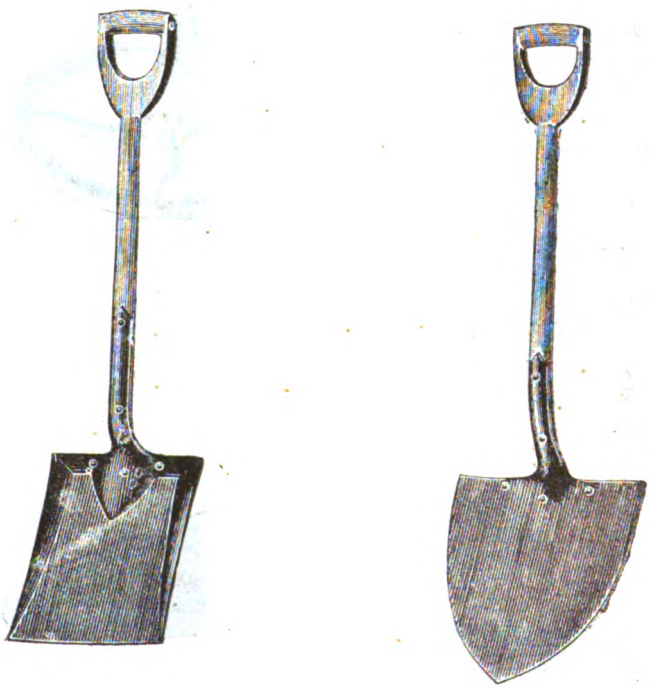


Fig. 5.



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Fig. 6.

Fig. 7.

Fig. 8.

Fig. 9.

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Fig. 10.

Fig. 11.

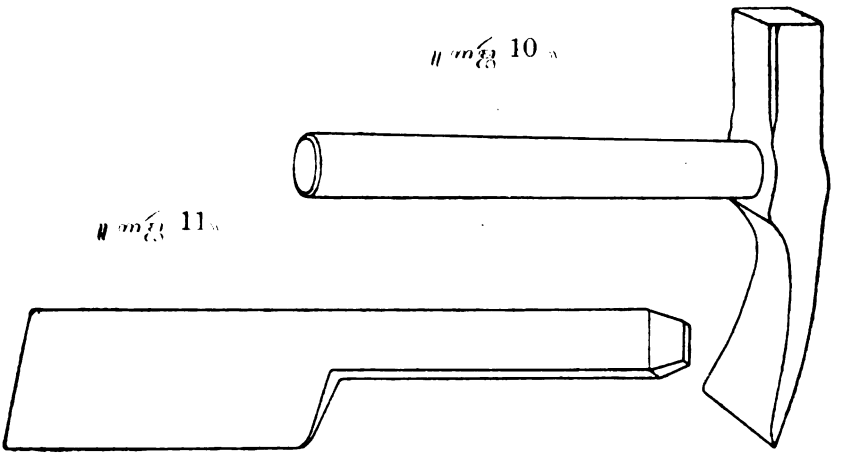
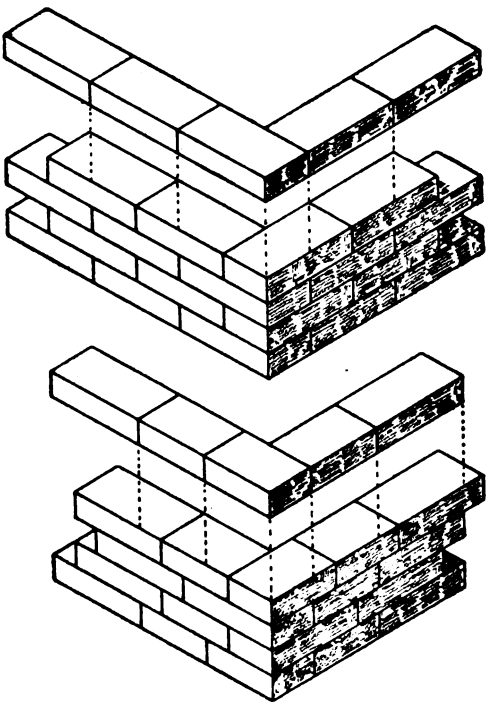


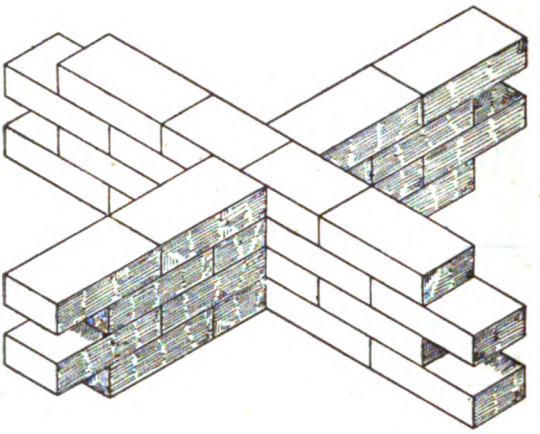
Fig. 12.



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Fig. 13.



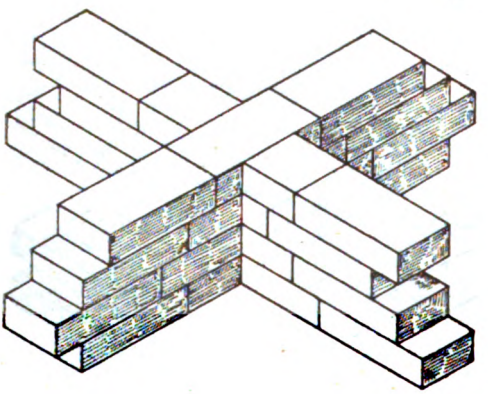
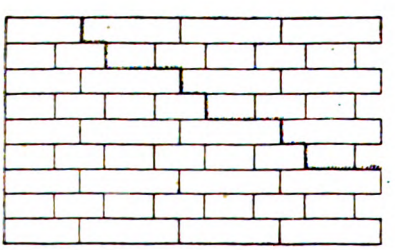


Fig. 14.



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Fig. 15.

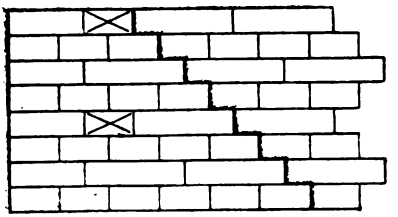


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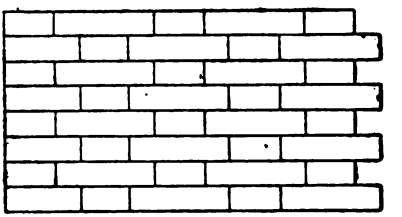
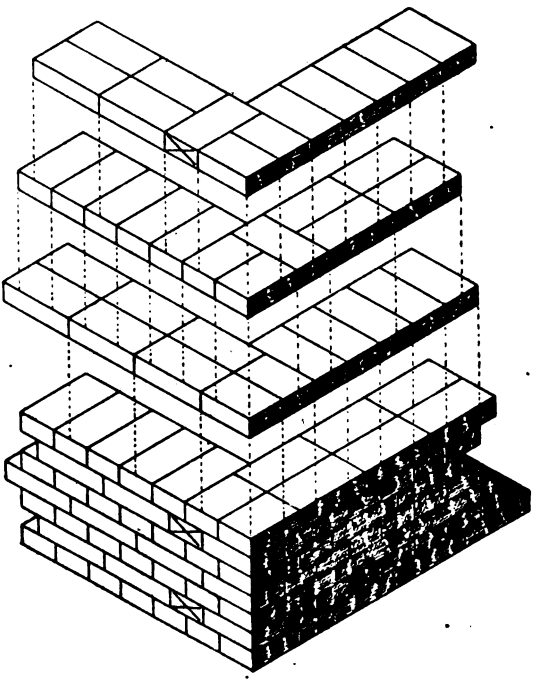


Fig. 17.



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Fig. 18.

Fig. 19.

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Fig. 20.

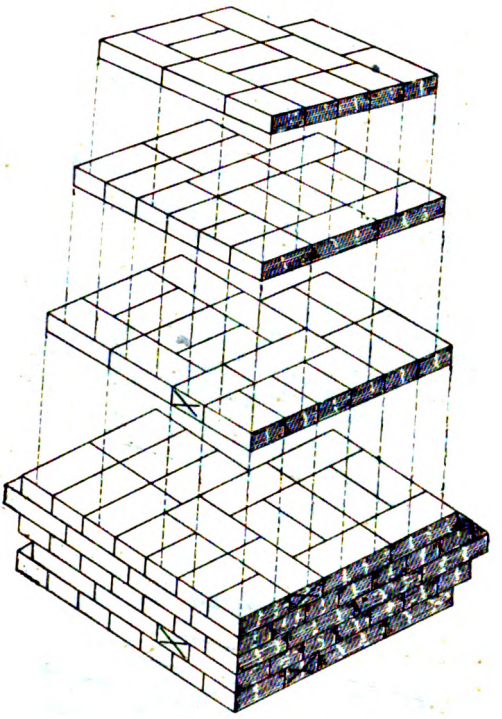
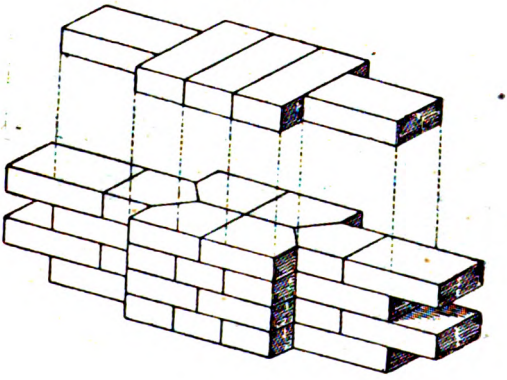


Fig. 21.



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Fig. 22.

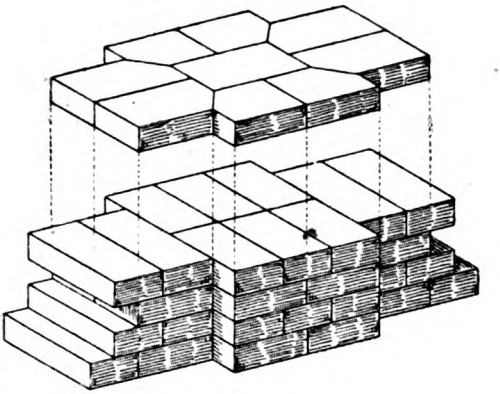
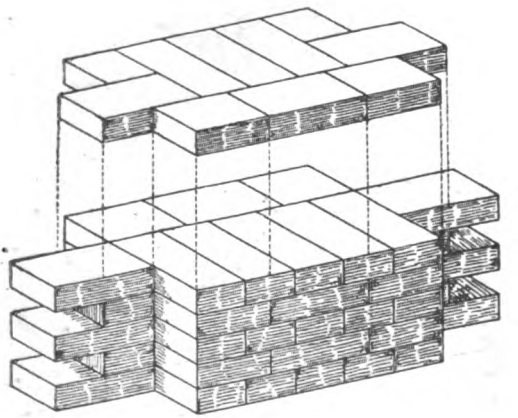


Fig. 23.



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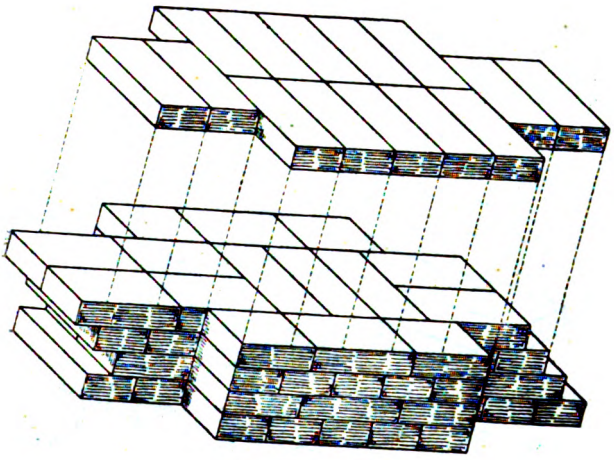


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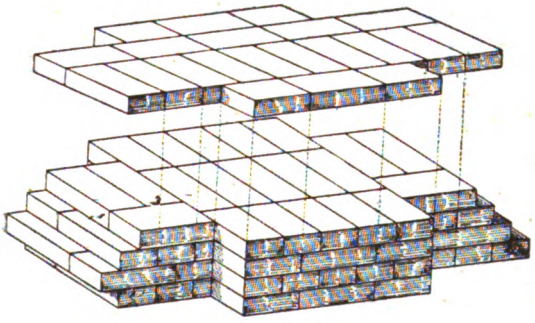
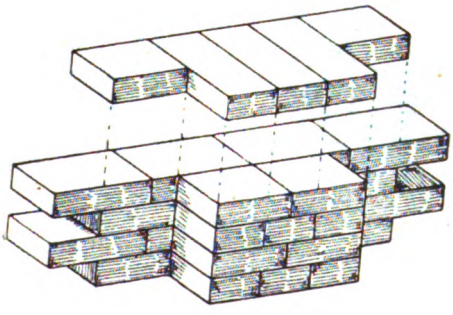


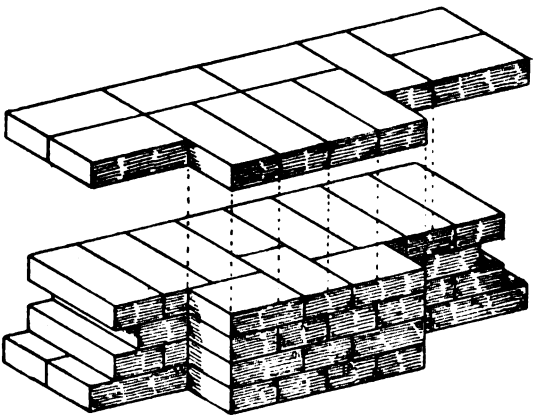
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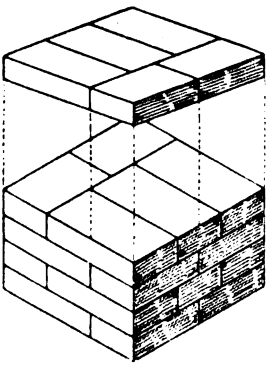
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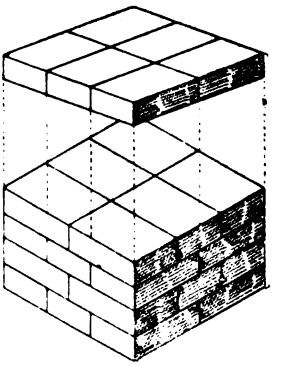
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ภาพที่ 28



ภาพที่ 29



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Fig. 30.

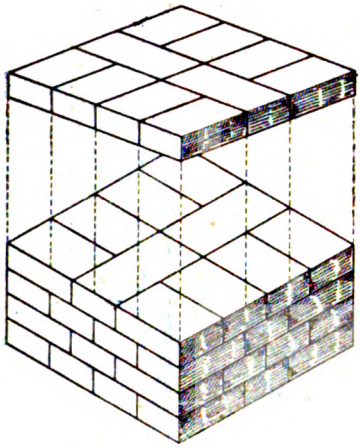


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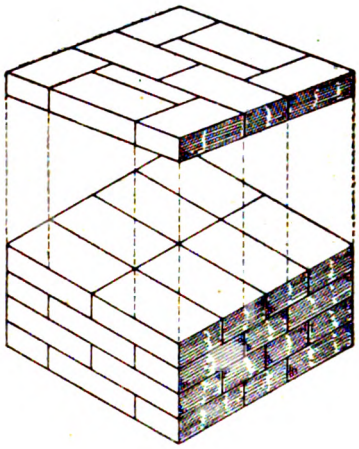
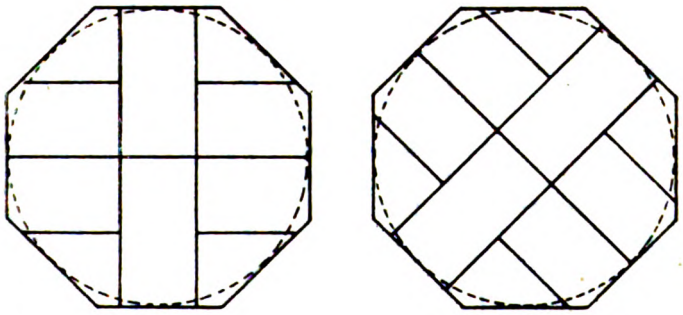


Fig. 32.



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Fig. 33.

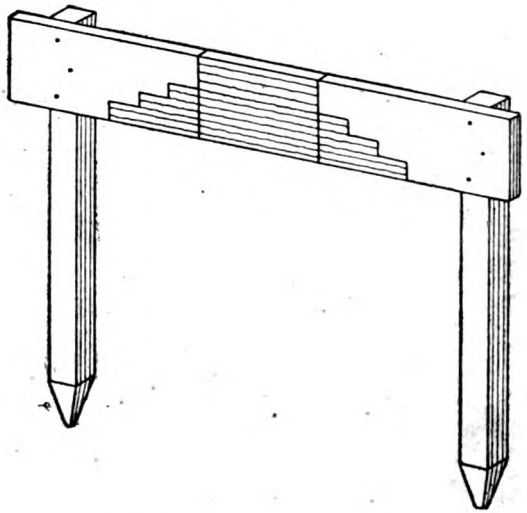


Fig. 34. Einschlagkeil 15.

Fig. 35.

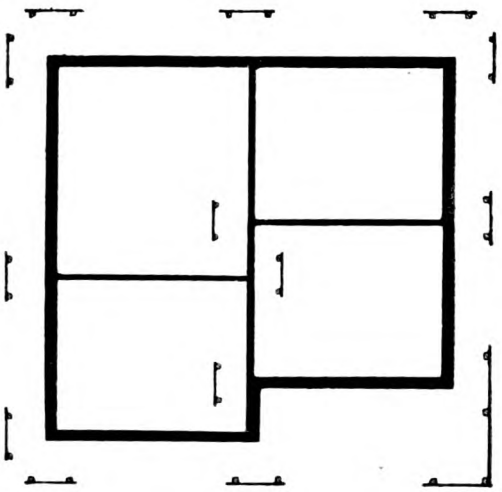


Fig. 36.



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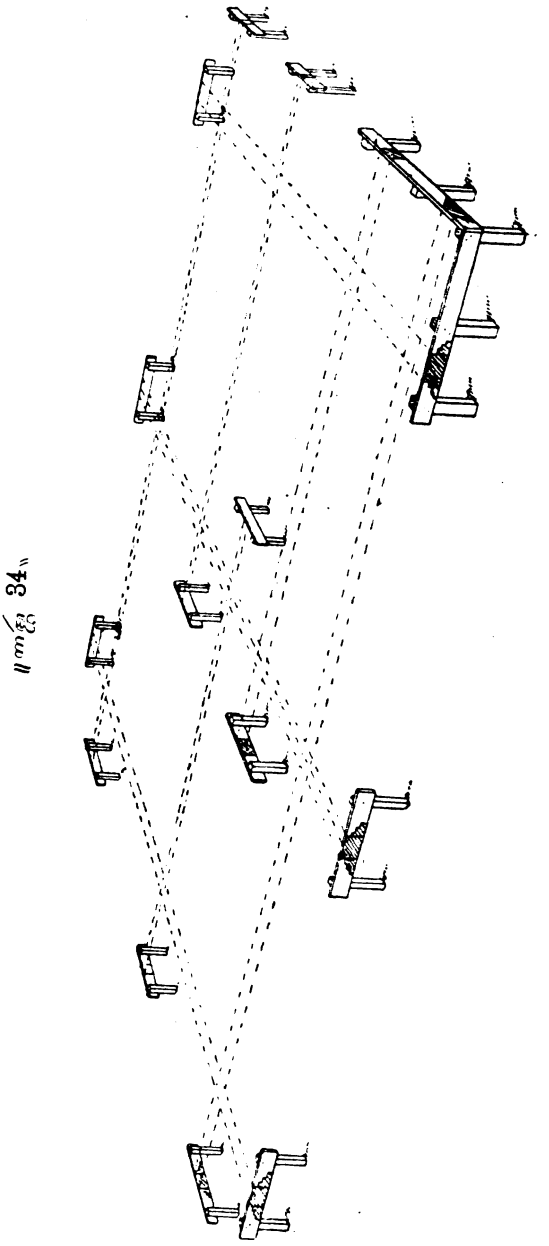


Fig. 34.

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Fig. 37.

Fig. 38.

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Fig. 39.

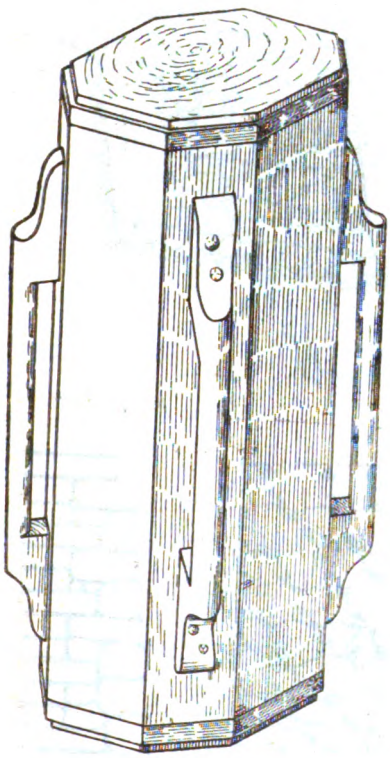
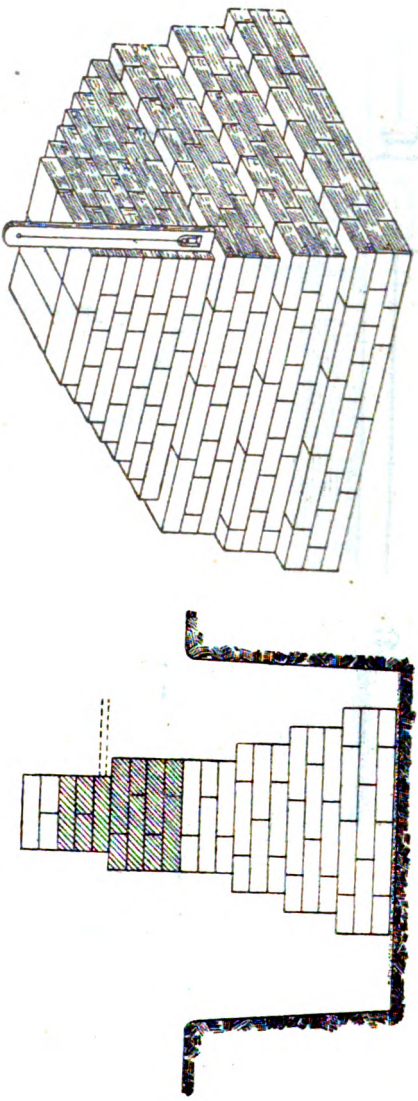


Fig. 40.

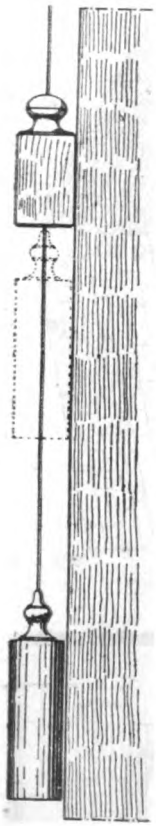


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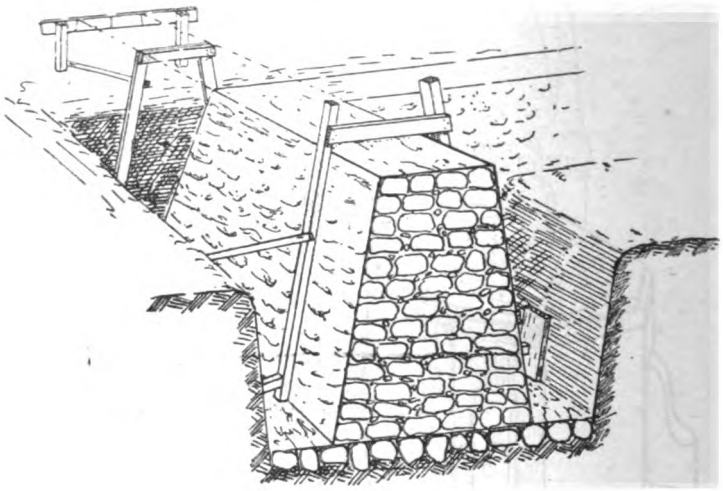
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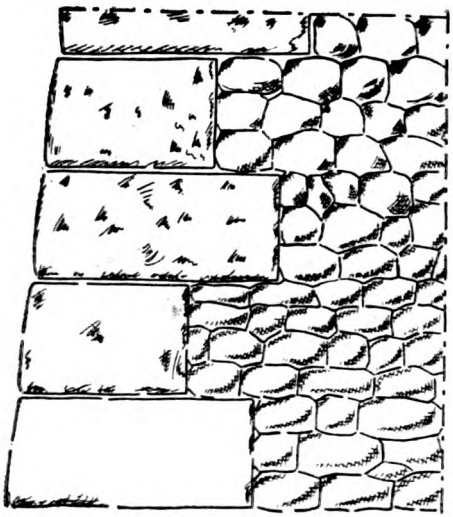
ภาพที่ 41



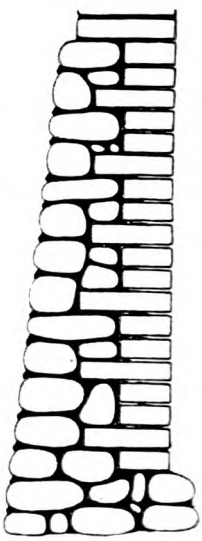
ภาพที่ 42



ภาพที่ 42 a



ภาพที่ 42 b



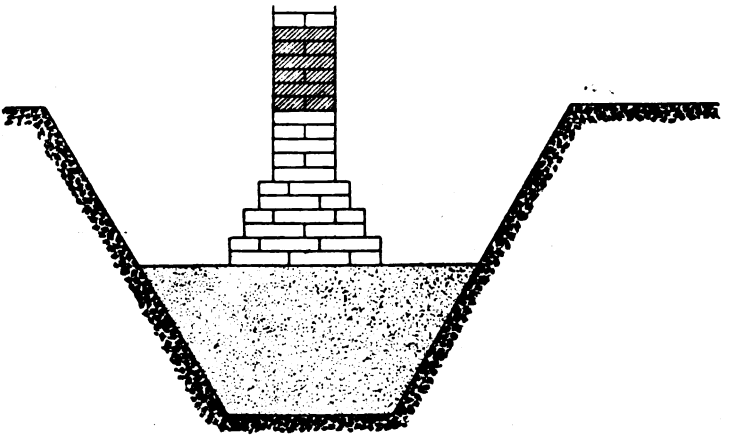
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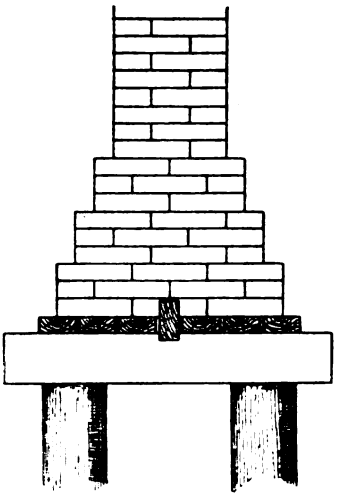
ภาพที่ 43



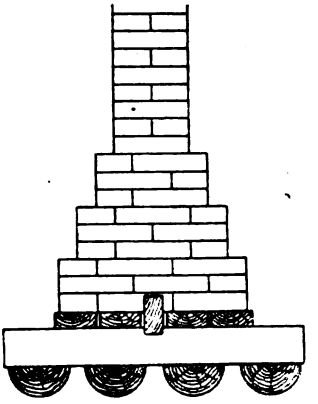
ภาพที่ 44



ภาพที่ 46



ภาพที่ 45



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Fig. 47.

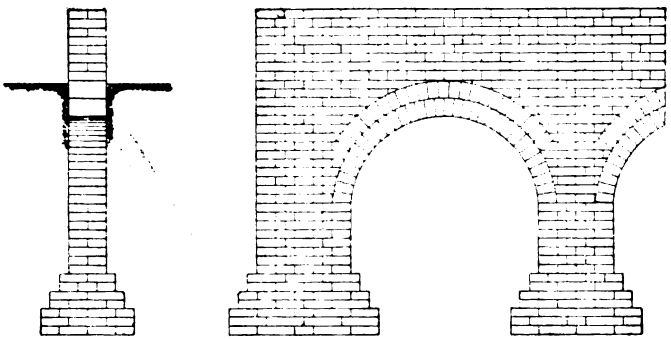
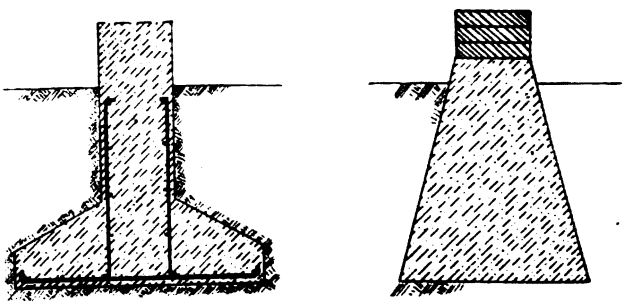


Fig. 48.



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Fig. 48a.

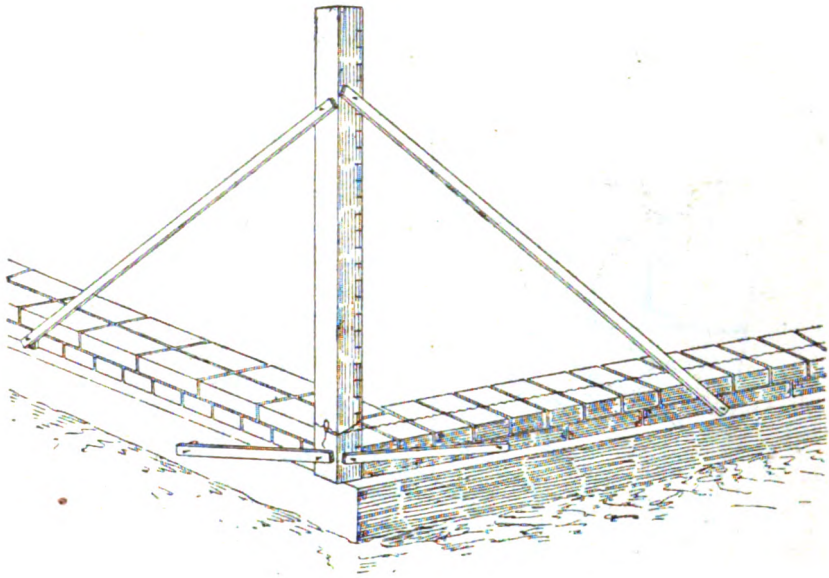
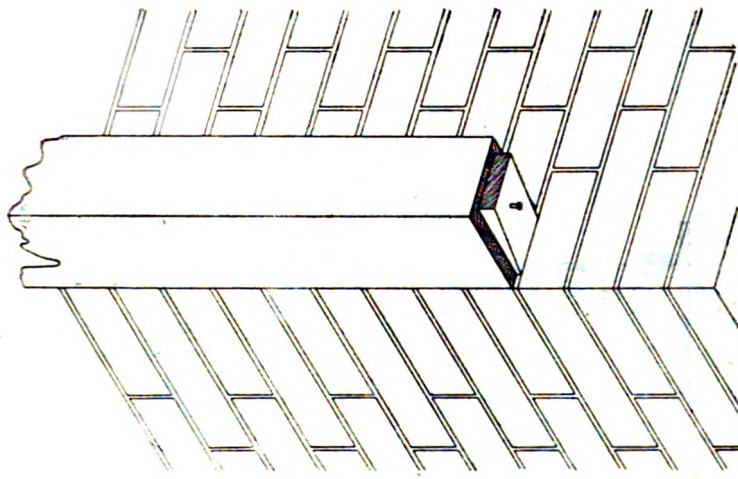


Fig. 49.



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Fig. 49.

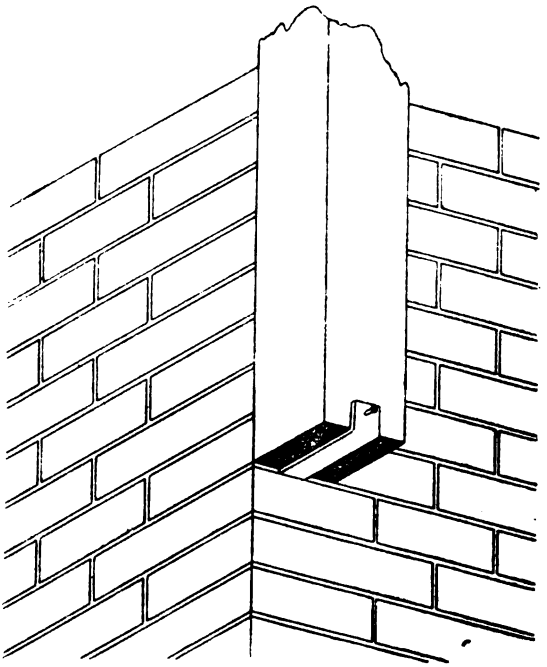
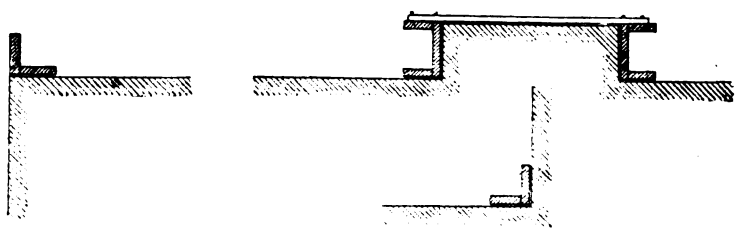


Fig. 50.



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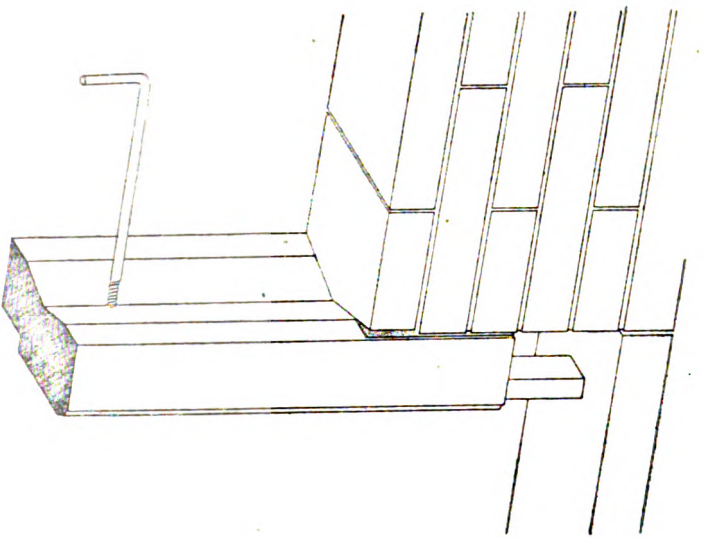


Fig. 51.

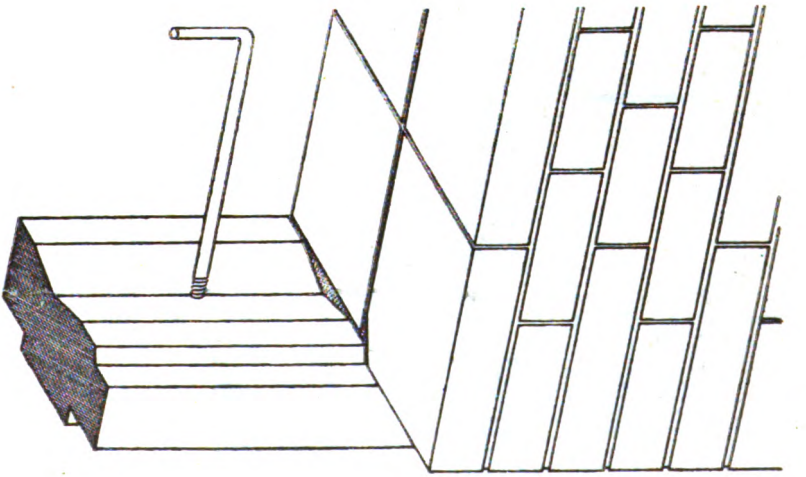


Fig. 52.

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Fig. 53.

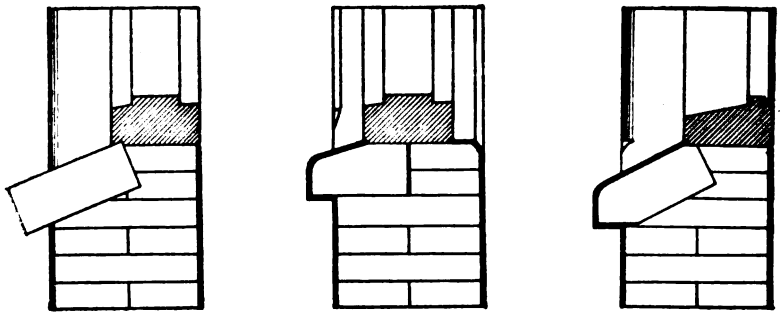
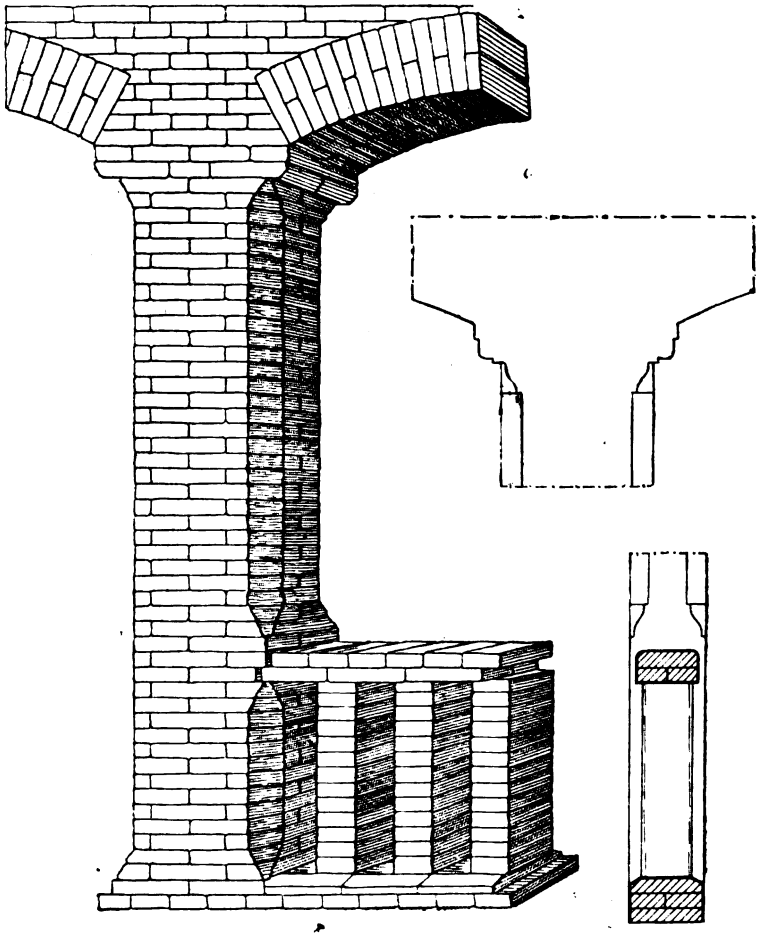


Fig. 54.

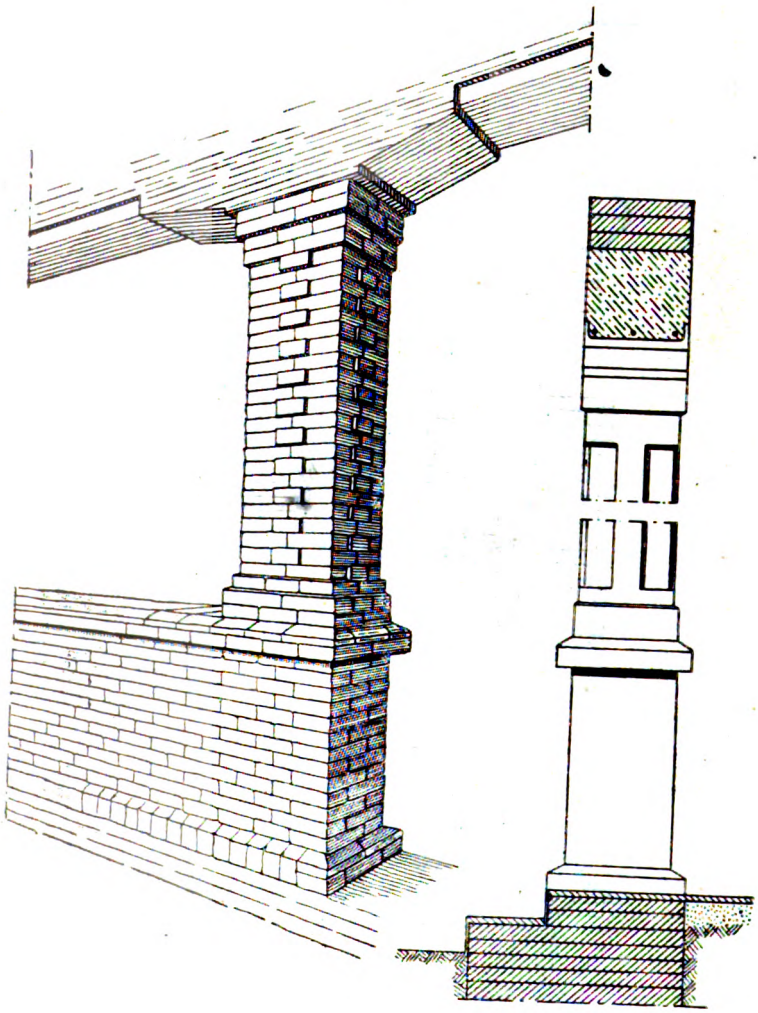


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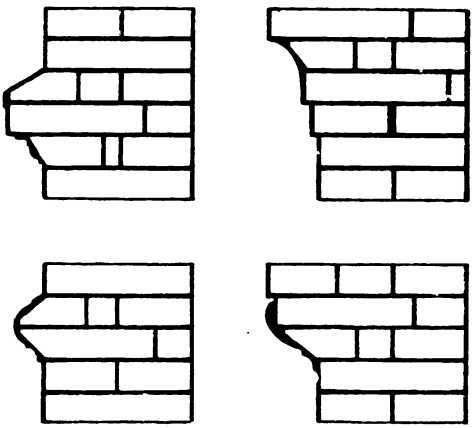
Plate 55.



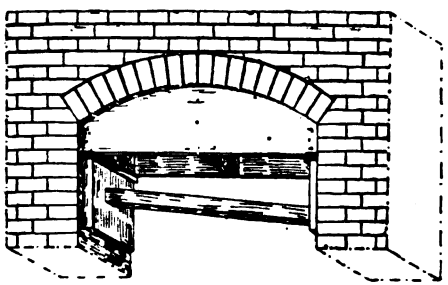
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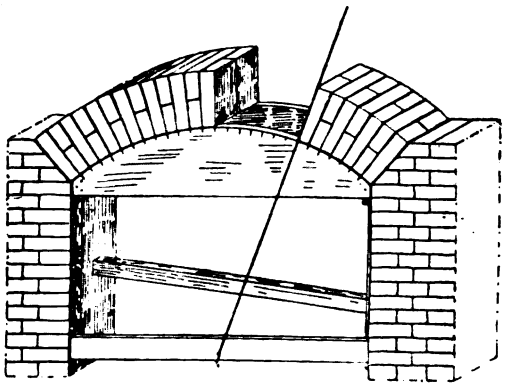
ภาพที่ 56



ภาพที่ 57



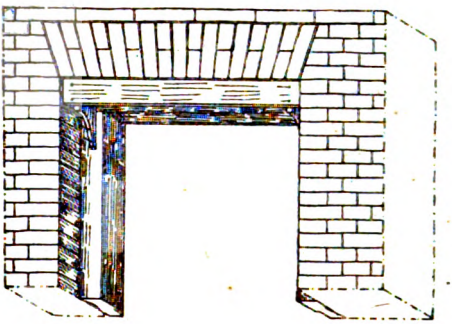
ภาพที่ 58



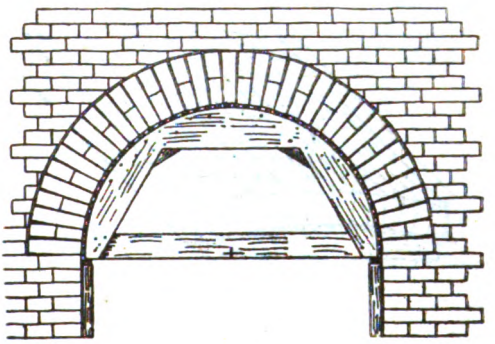
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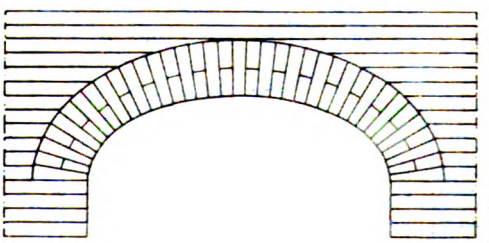
ပုံကြီး 59။



ပုံကြီး 60။



ပုံကြီး 61။



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Fig. 62.

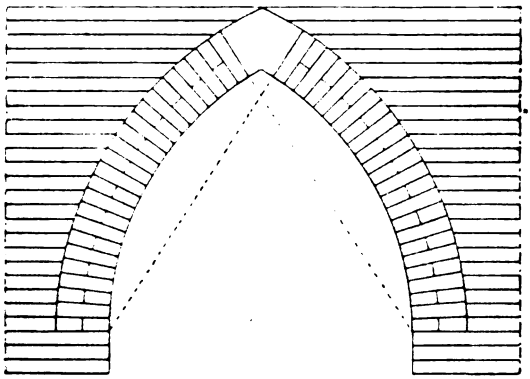


Fig. 63.

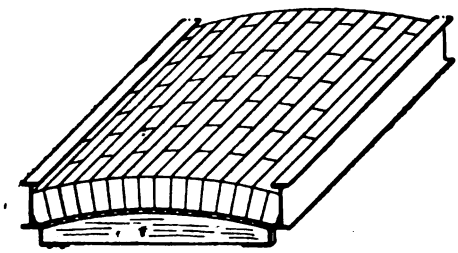
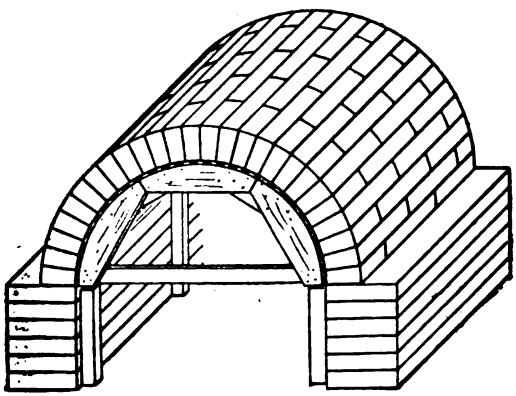


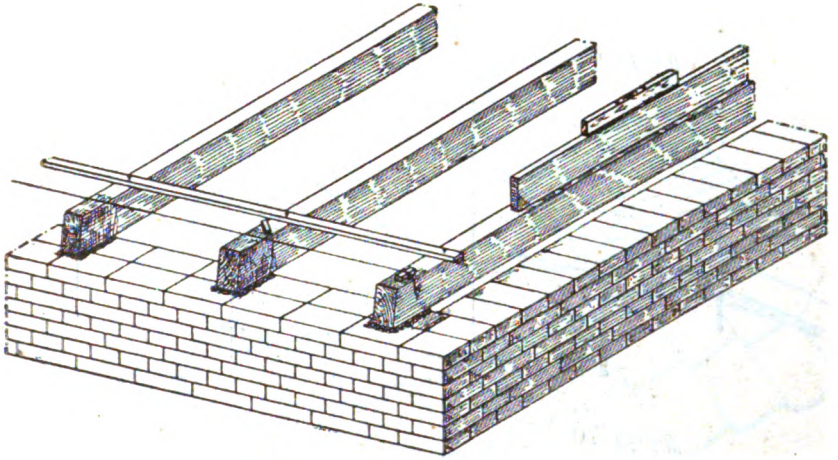
Fig. 64.



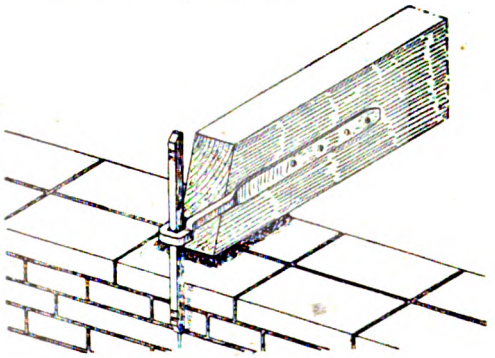
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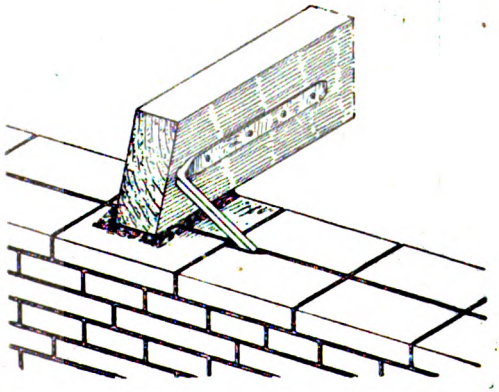
ภาพที่ 65



ภาพที่ 66

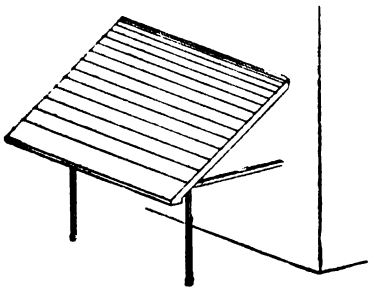


ภาพที่ 67

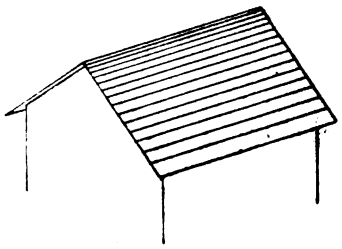


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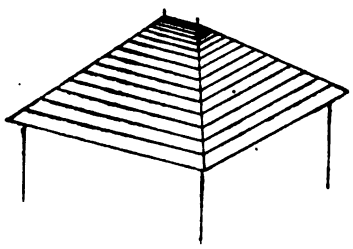
॥ ꣆ꣀ 68 ॥



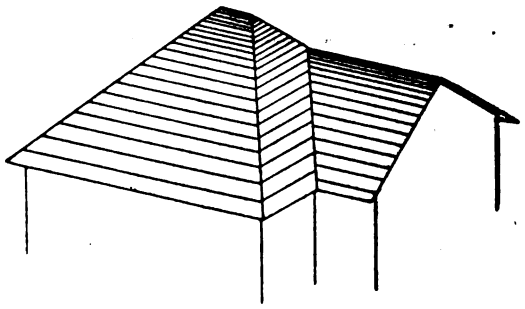
॥ ꣆ꣀ 69 ॥



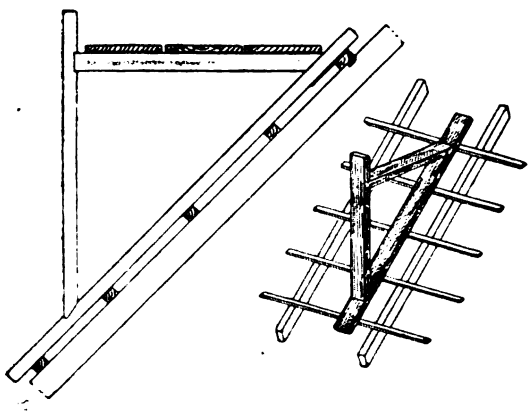
॥ ꣆ꣀ 70 ॥



॥ ꣆ꣀ 71 ॥



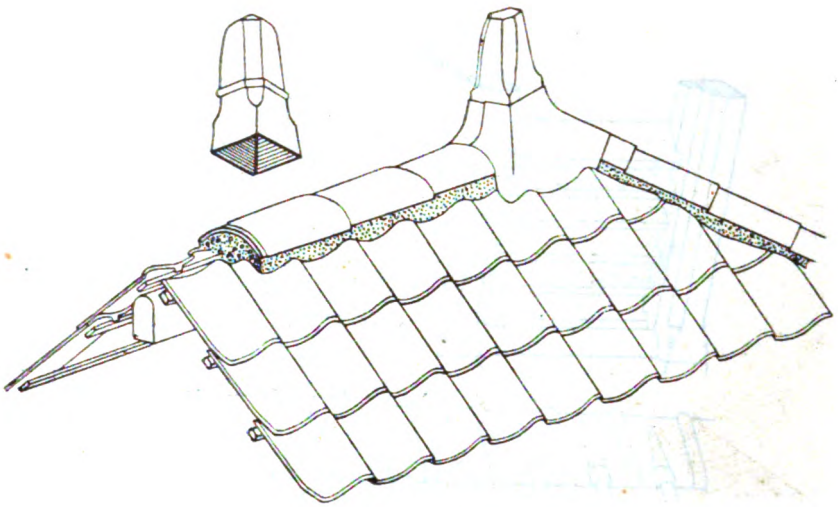
॥ ꣆ꣀ 72 ॥



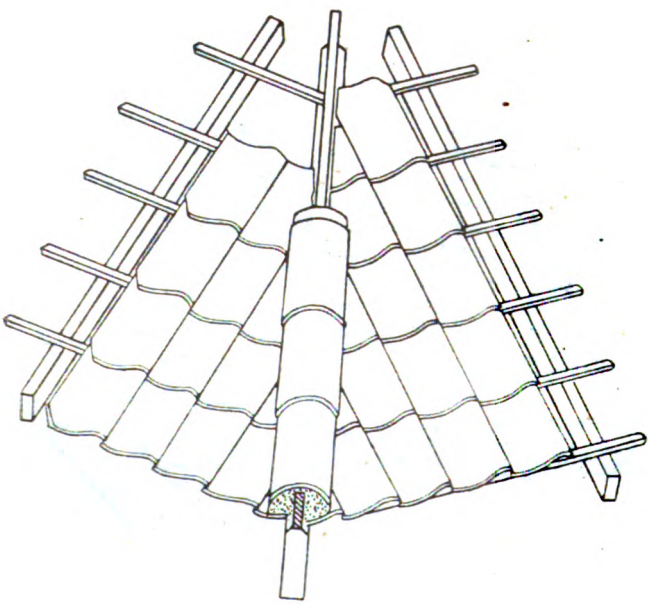
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ပုံကြီး 74။



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Fig. 75.

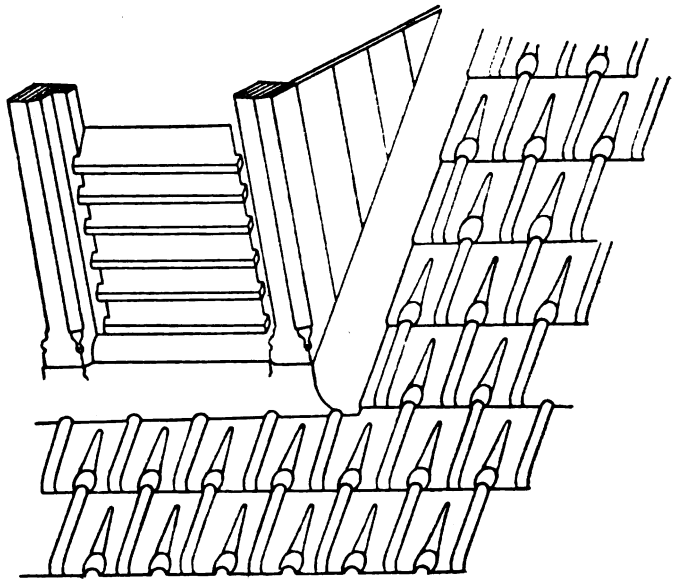


Fig. 76.

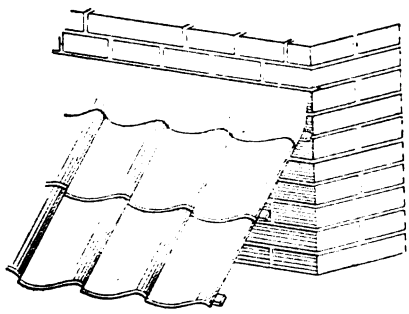
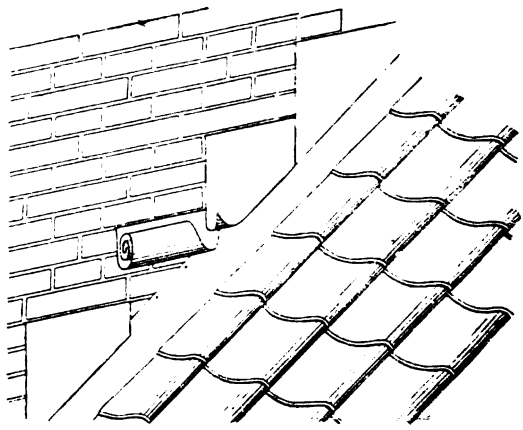


Fig. 77.



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Fig. 78.

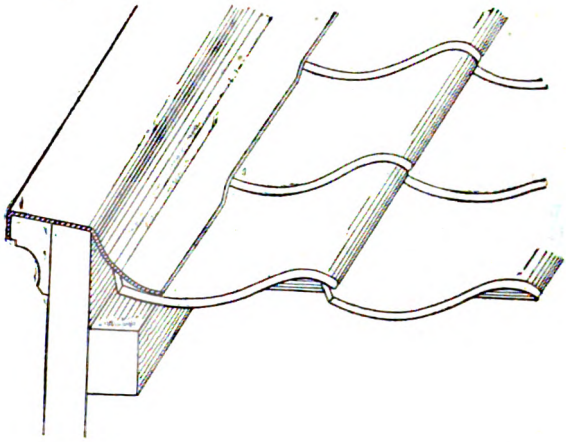


Fig. 79.

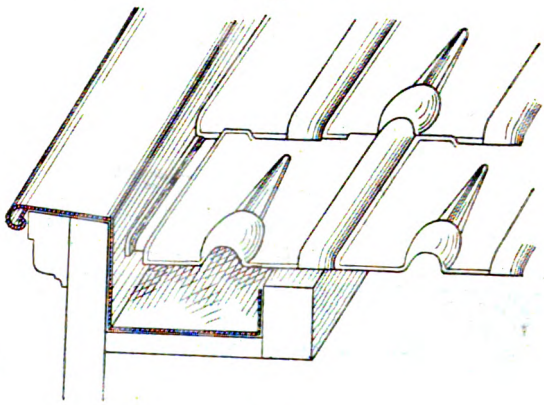
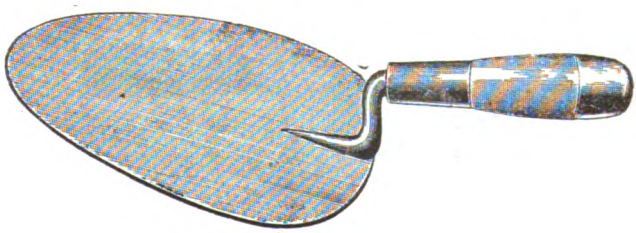


Fig. 80.



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Fig. 81.

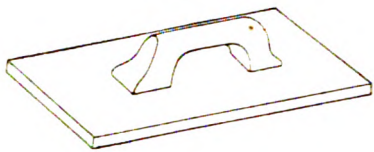


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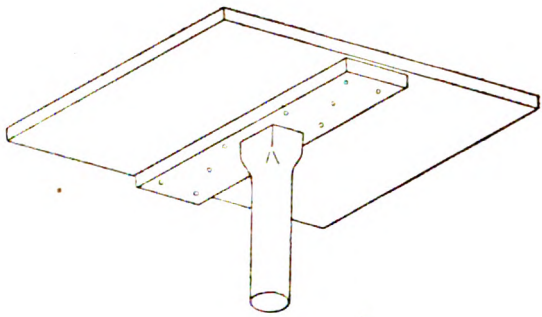


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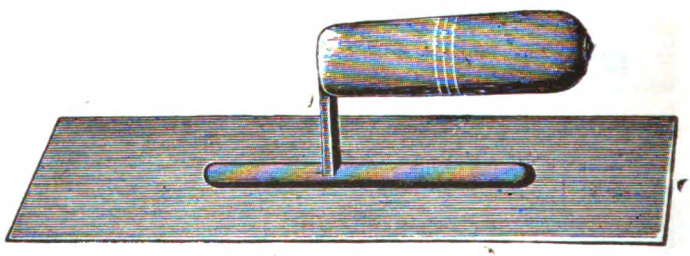
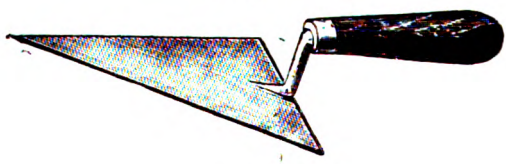


Fig. 84.



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Fig. 85.

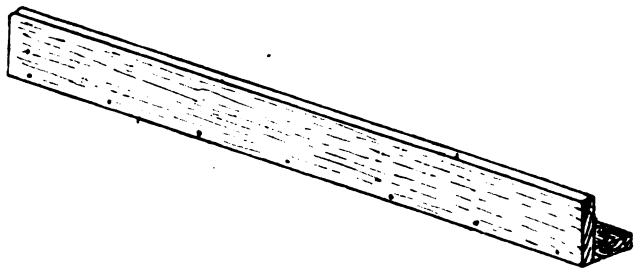


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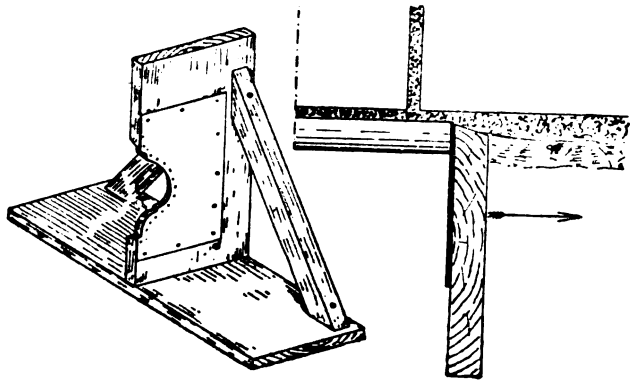
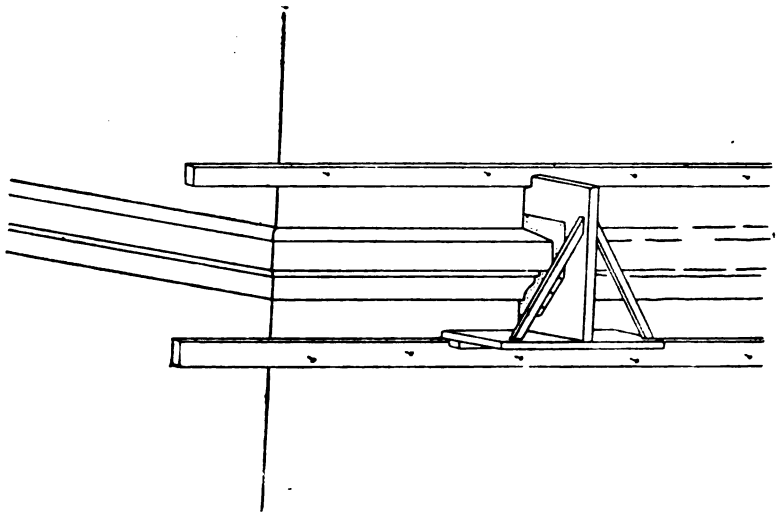


Fig. 87.



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Fig. 88.

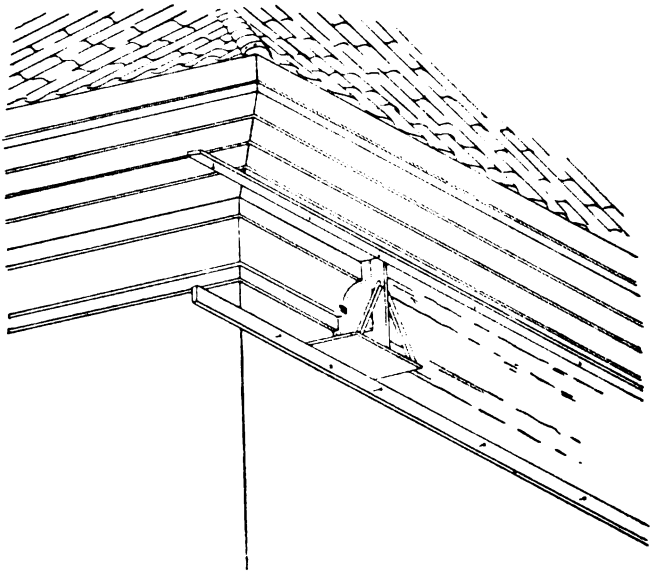
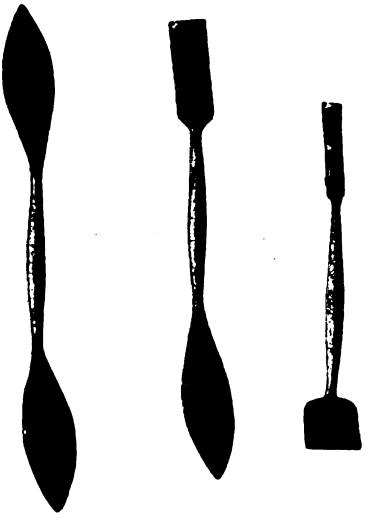


Fig. 89.



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Fig. 90.

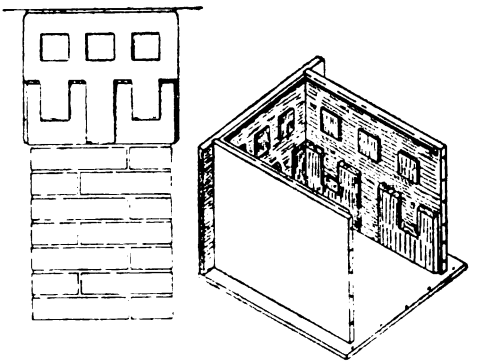


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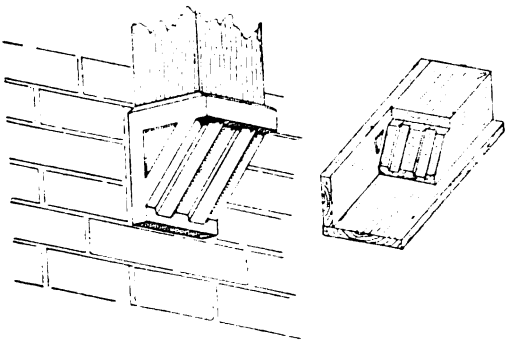
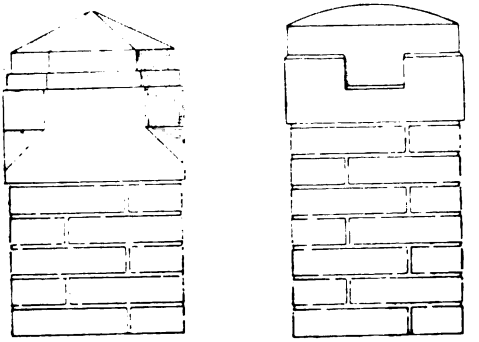


Fig. 92.



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Fig. 93.

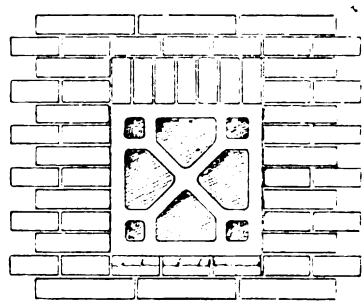


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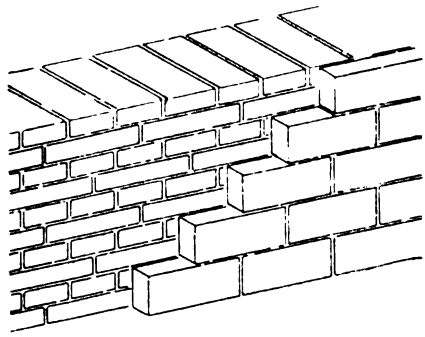
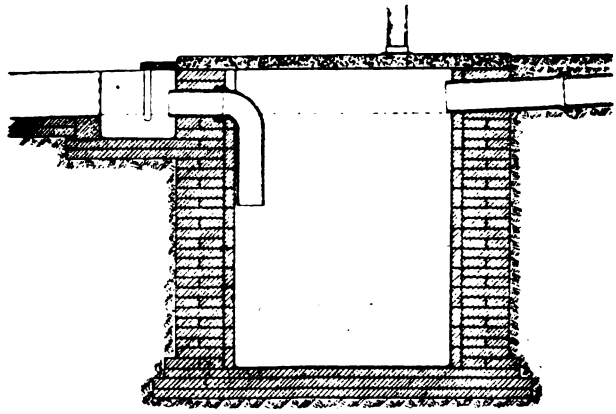


Fig. 95.



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Fig. 97.

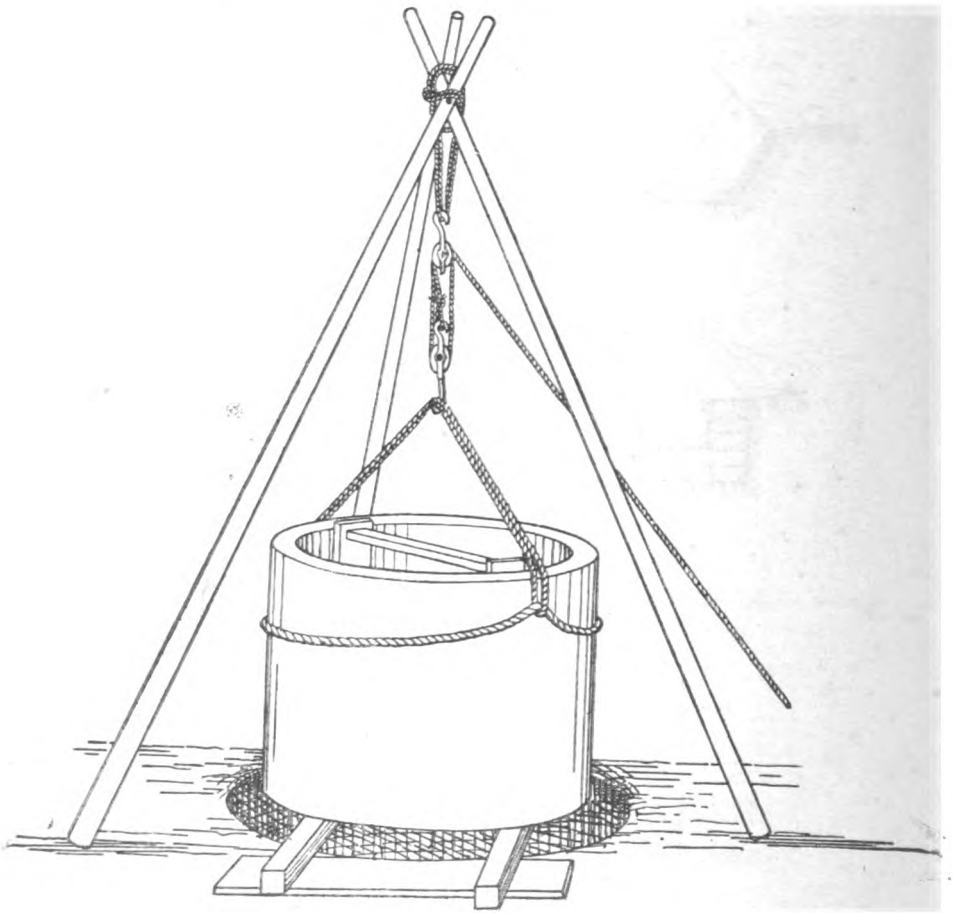
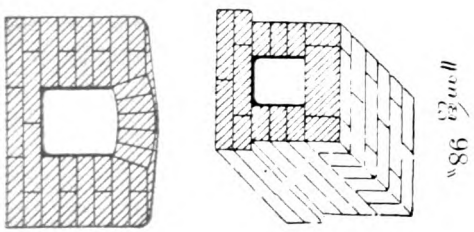


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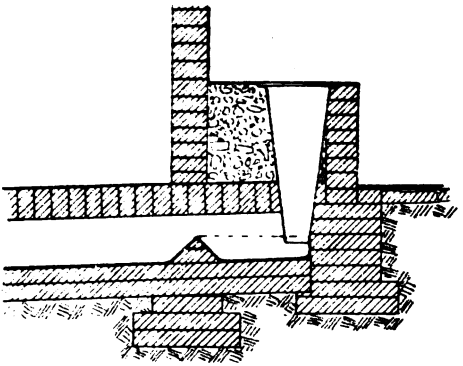


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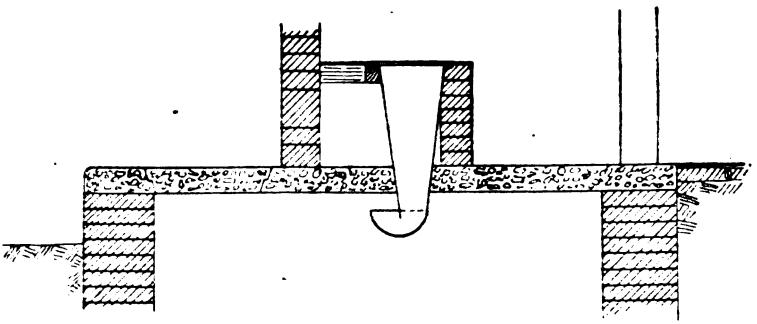
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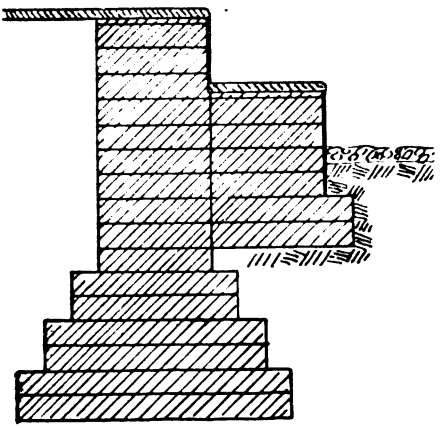
Фиг. 100.



Фиг. 101.



Фиг. 102



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Fig. 103.

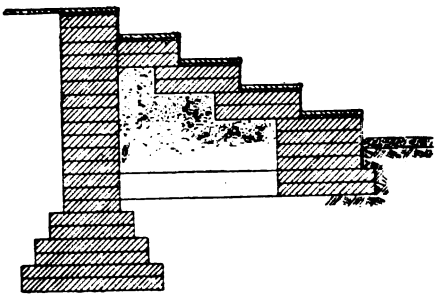


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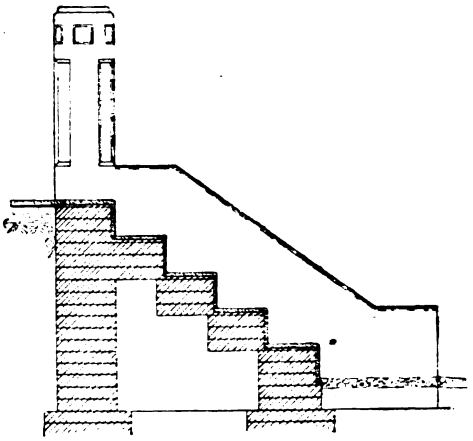
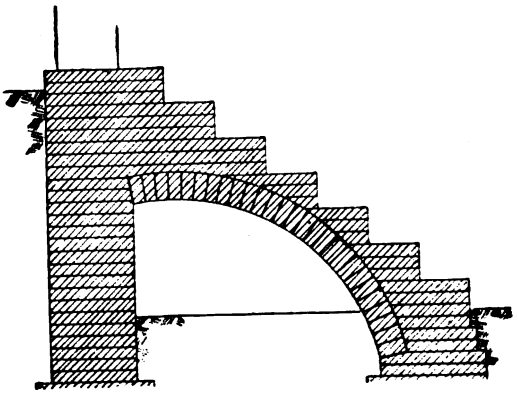


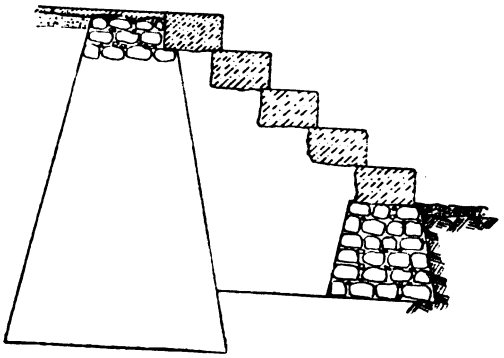
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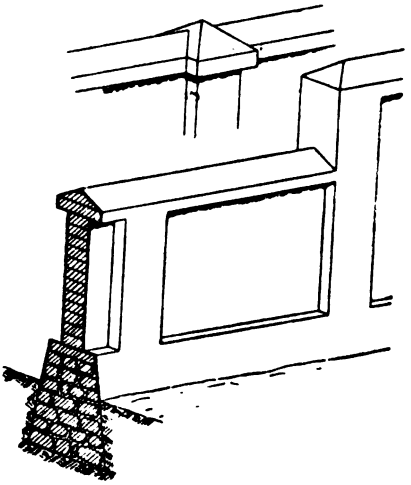
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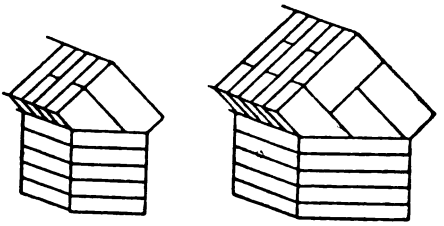
ภาพที่ 106



ภาพที่ 107



ภาพที่ 108



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Fig. 109.

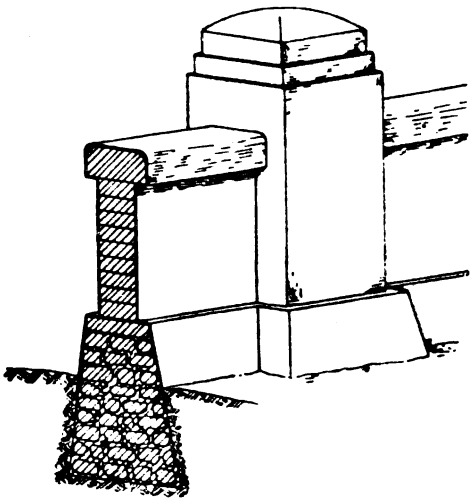


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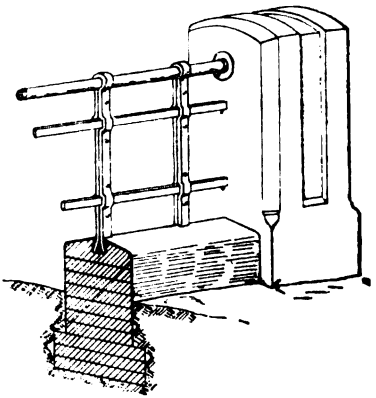
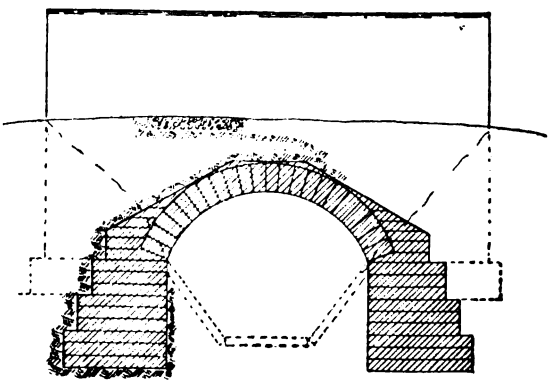
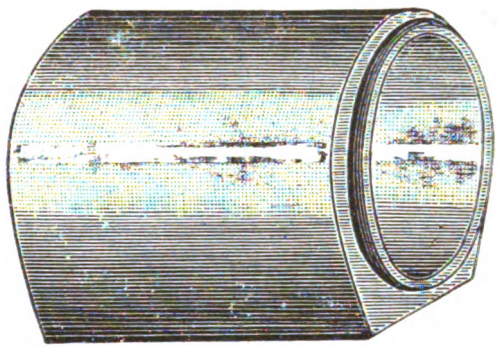


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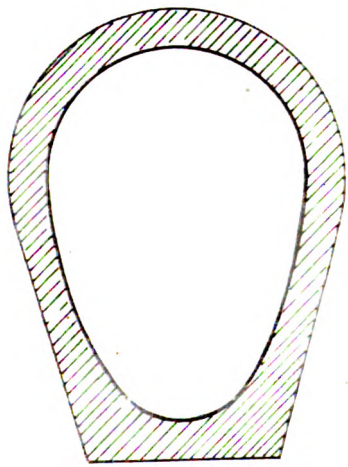


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॥ मॅग 112॥



॥ मॅग 112 a ॥



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Fig. 114.

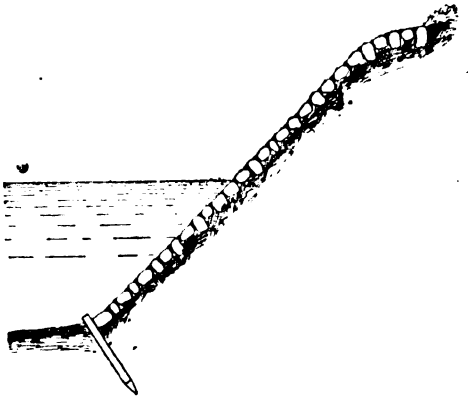


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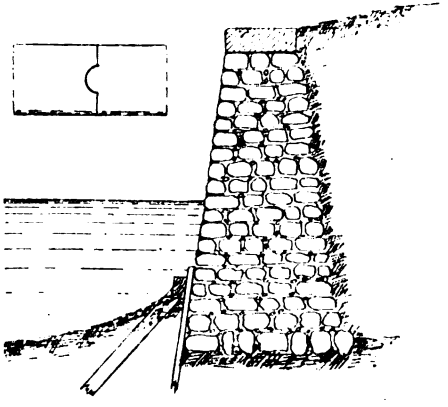


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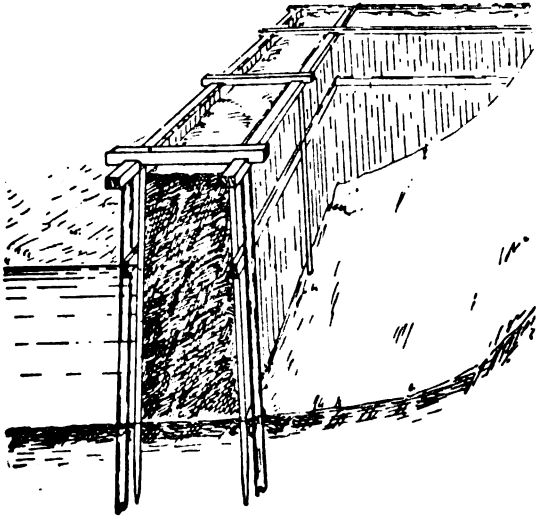
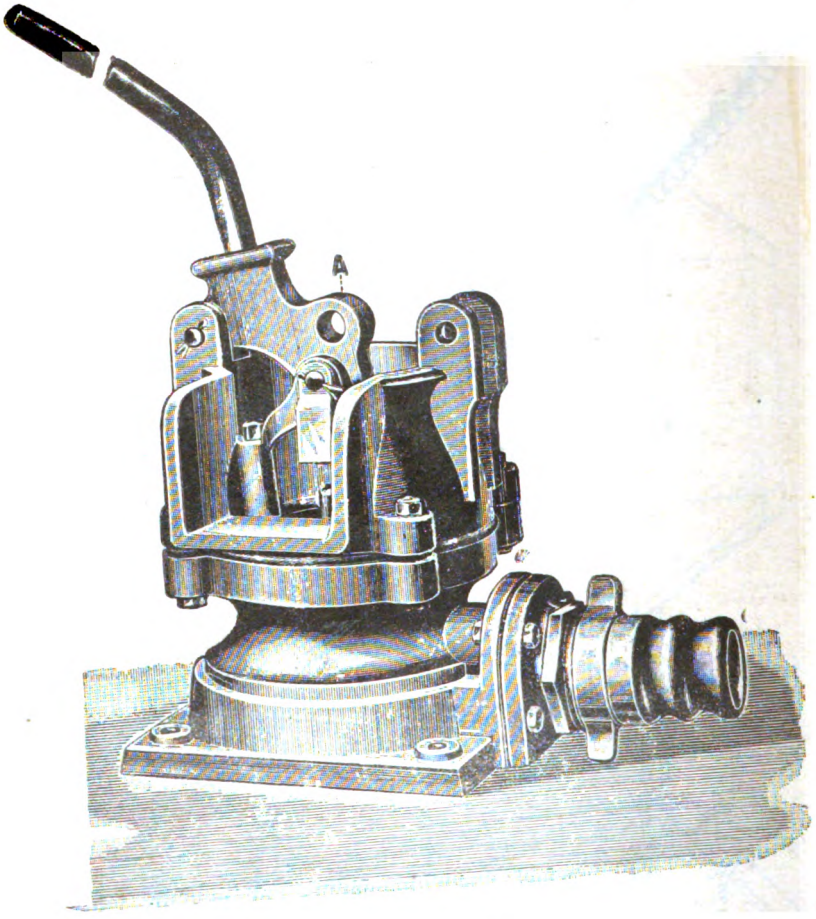


Fig. 117.



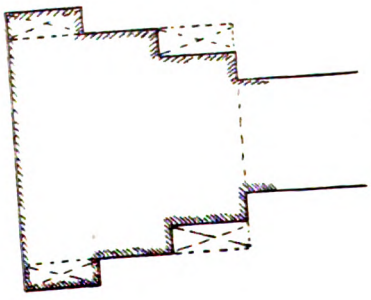


Fig. 118.

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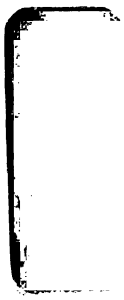
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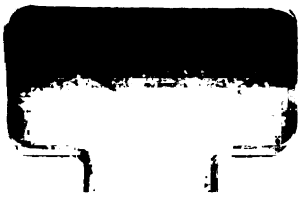
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